

Mon April 15, 2024

Physics 11 Warm-up: Energy Transformations and Work = Fd

1) Write the energy transformation equation for each of the following:

a. A battery powered drone starts on the ground, then the drone operator has it fly above a tree:

_____ → _____ → _____ + (waste energy) _____

b. Gas fireplace: _____ → _____ + _____

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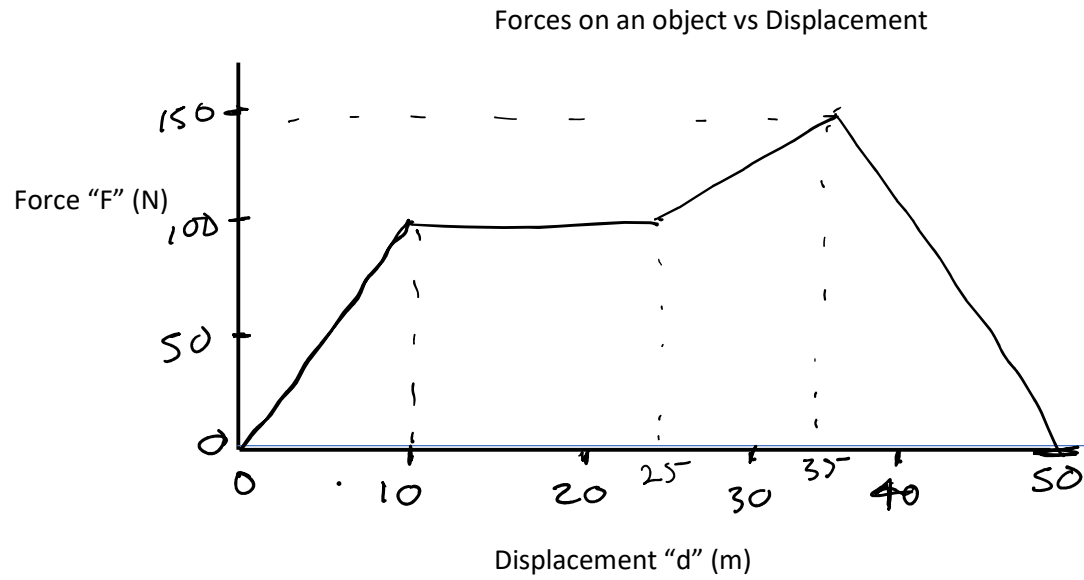
2) A 50.0 kg box is lifted (at a constant speed) from ground level to a 2.00 m high shelf.

a. Draw the fbd for the box

b. Determine (calculate) the work done on the box by **each force**

c. Determine the **net work** done on the box

3) This graph represents the force on an object vs its displacement. Calculate the **net work** done on the object.



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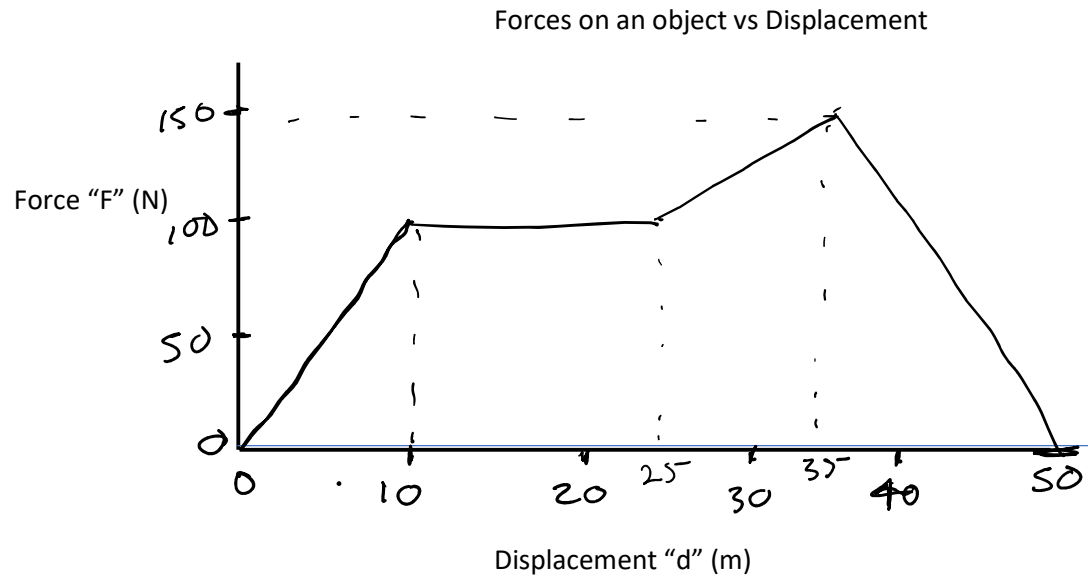
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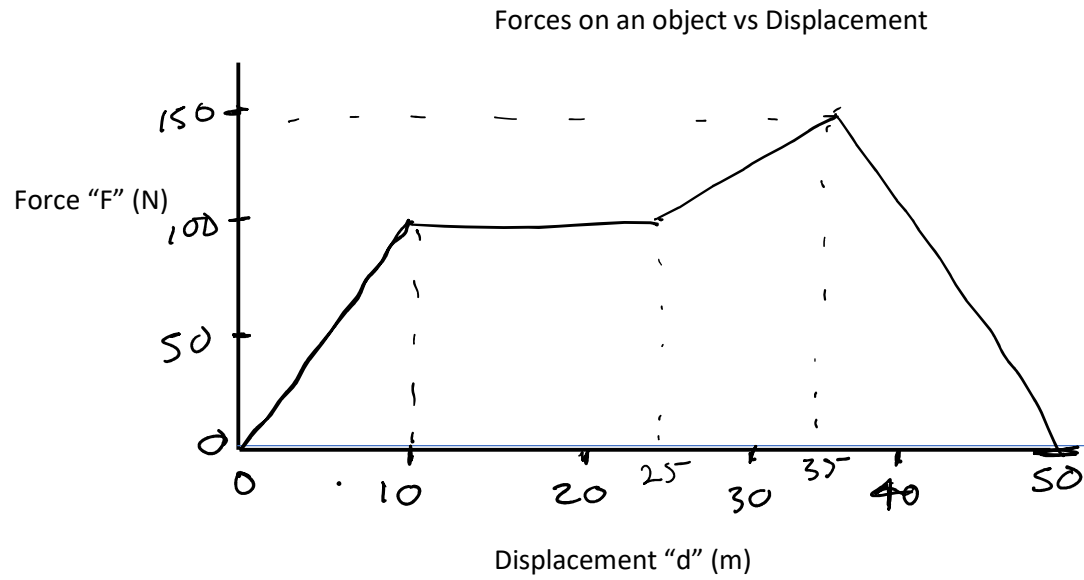
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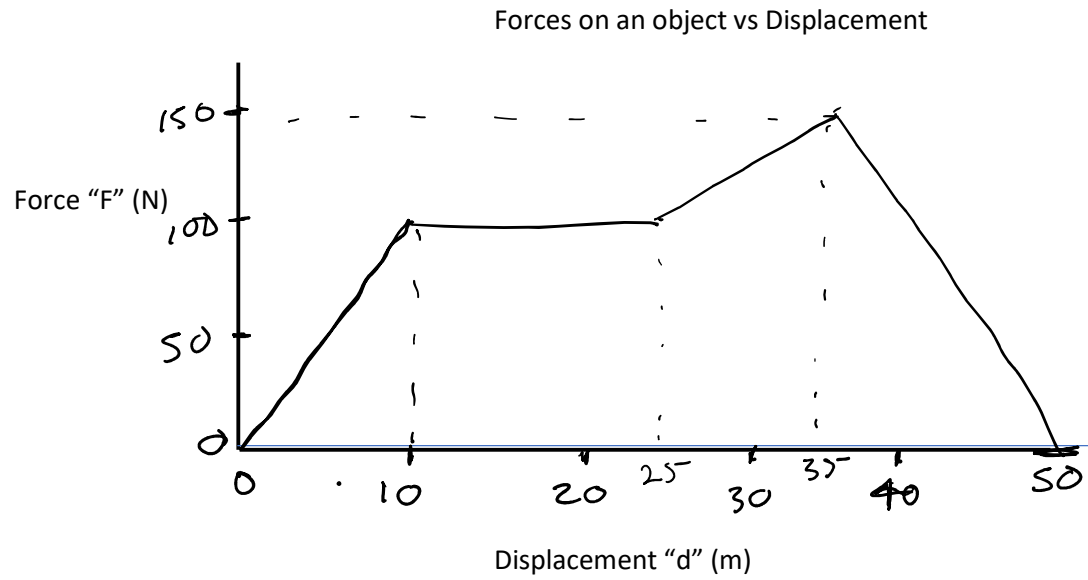
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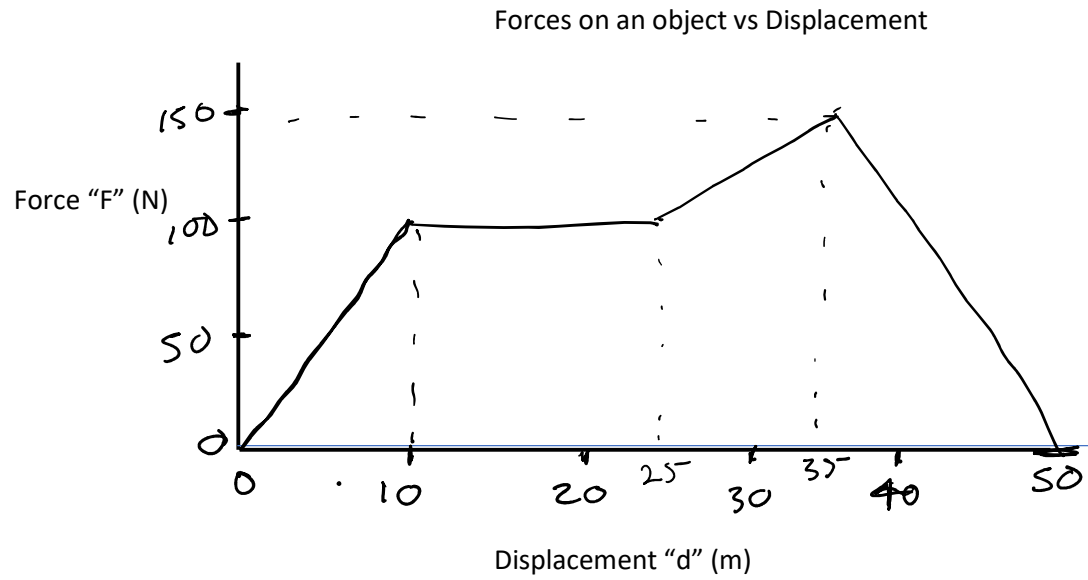
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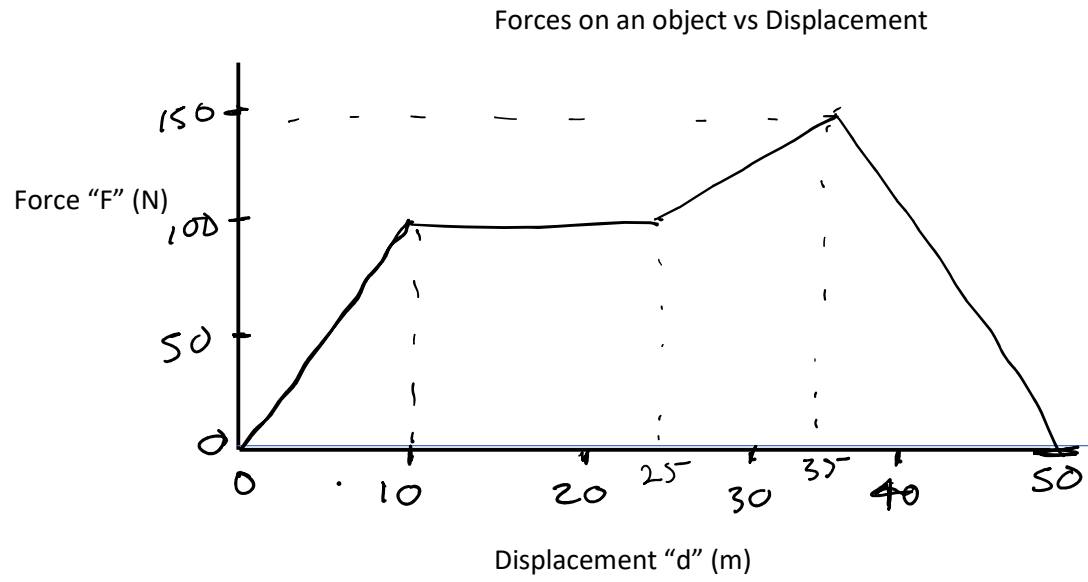
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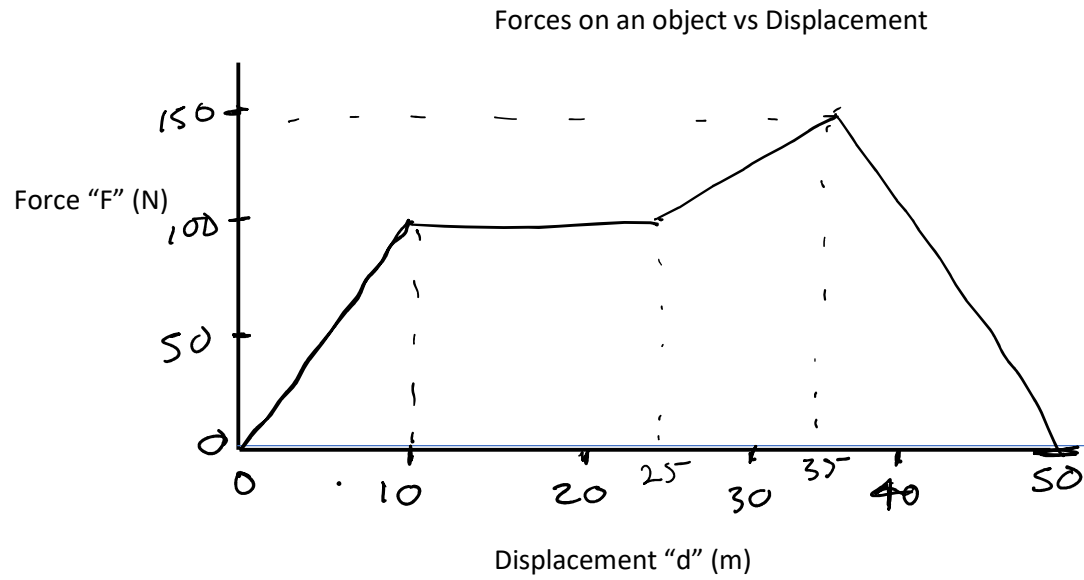
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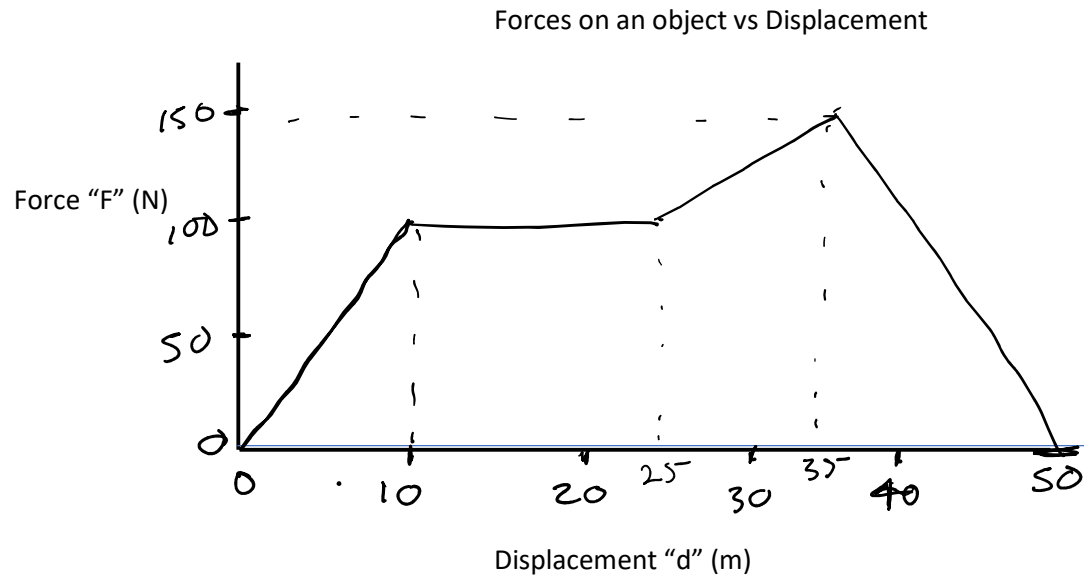
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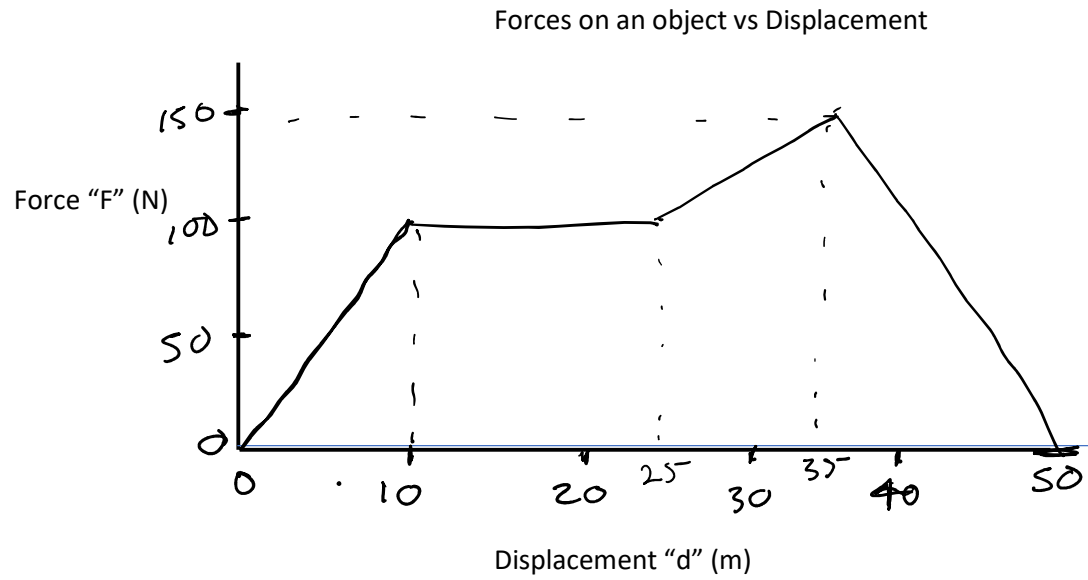
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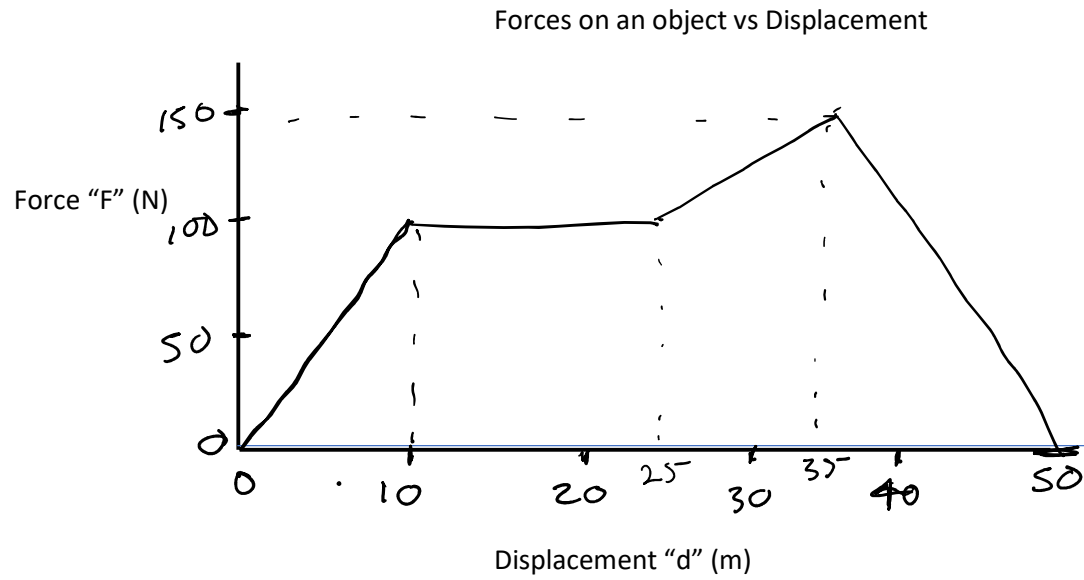
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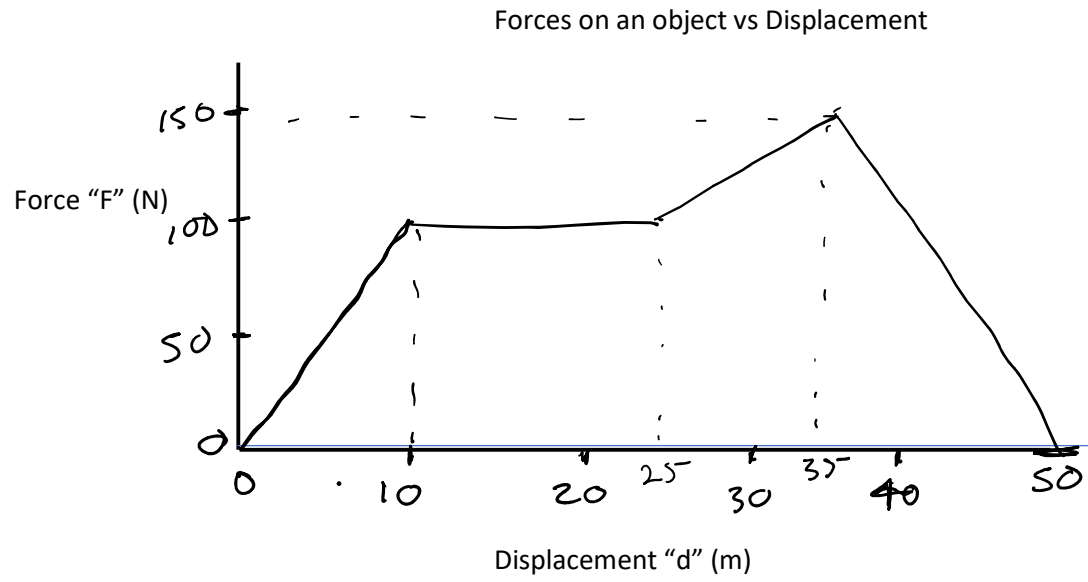
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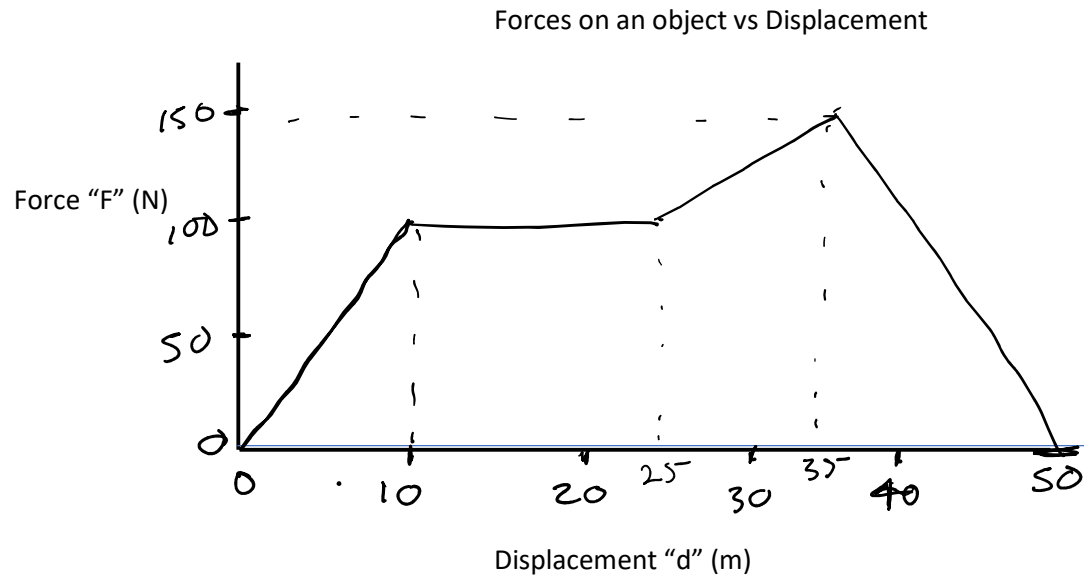
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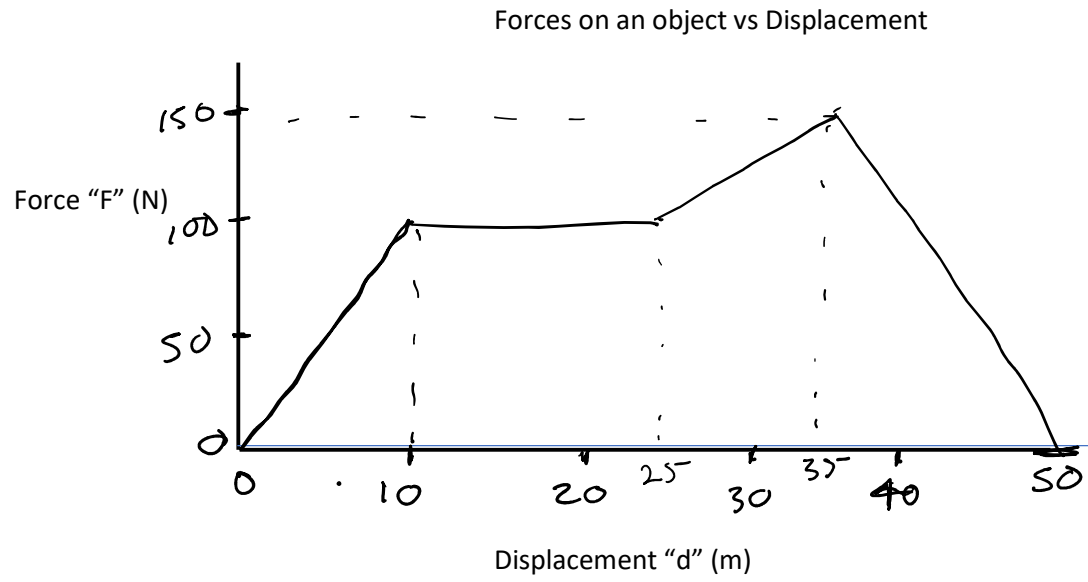
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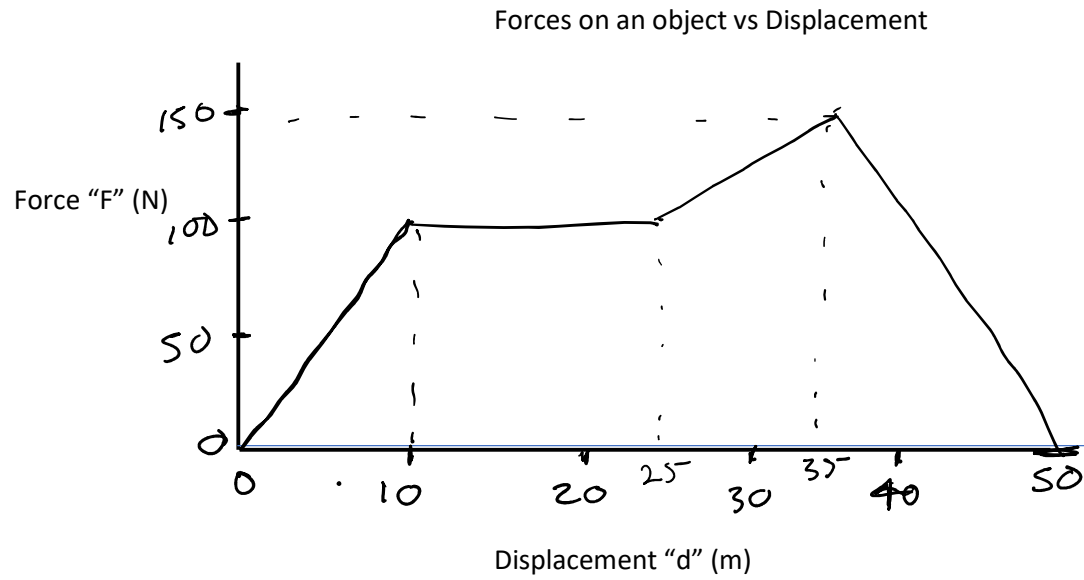
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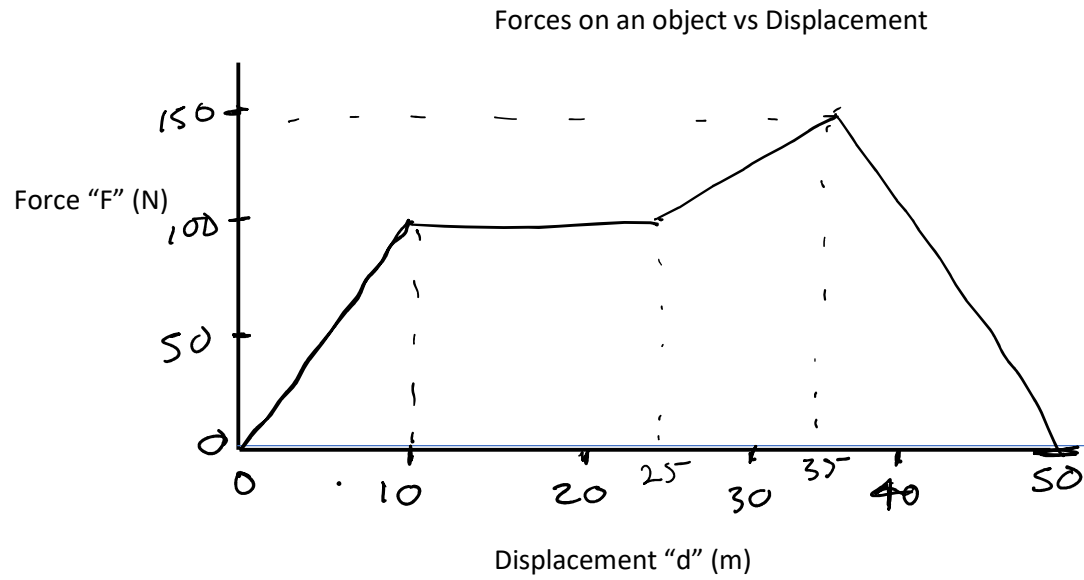
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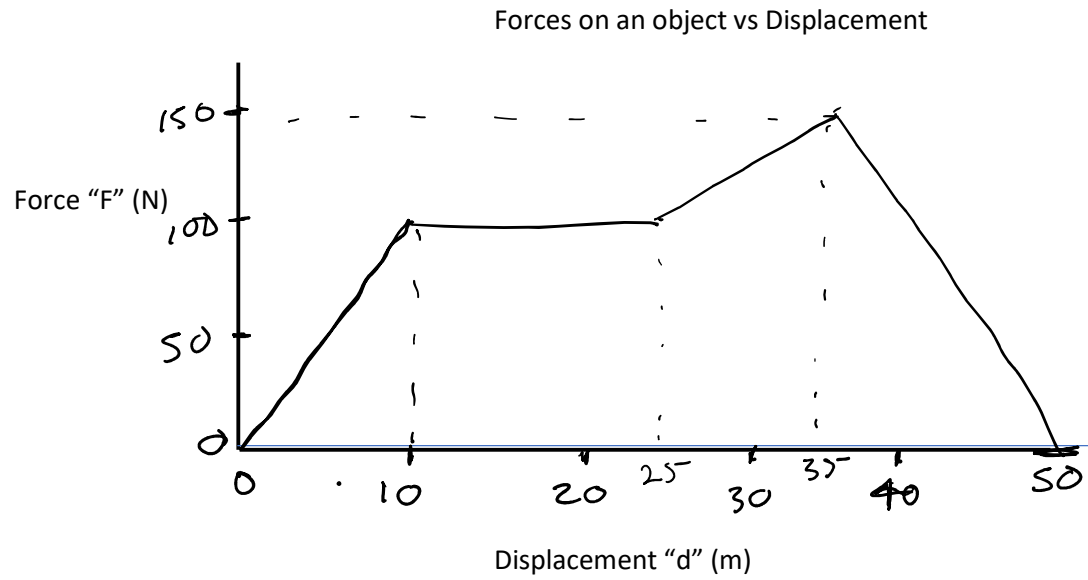
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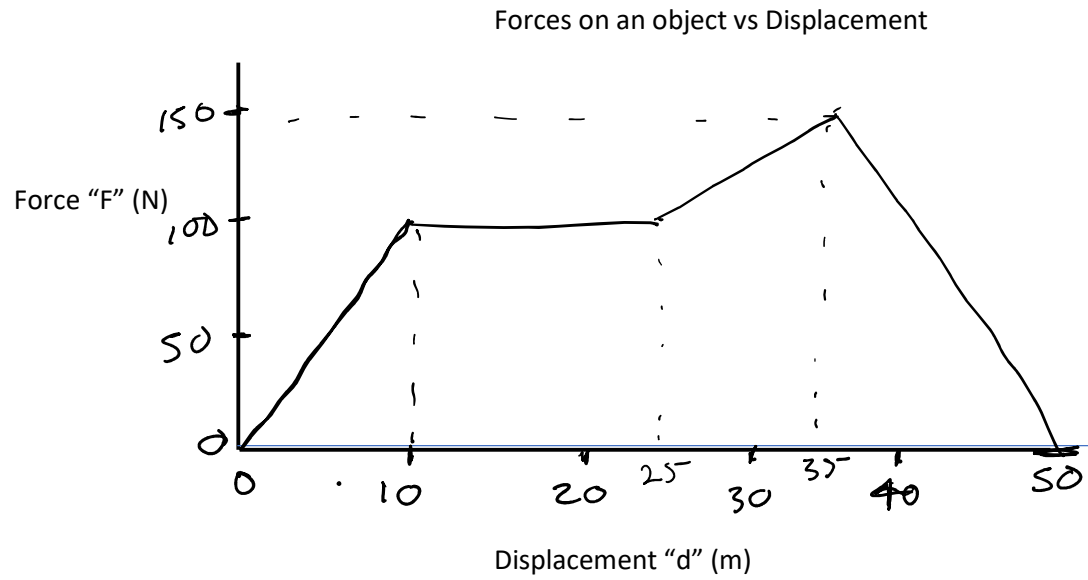
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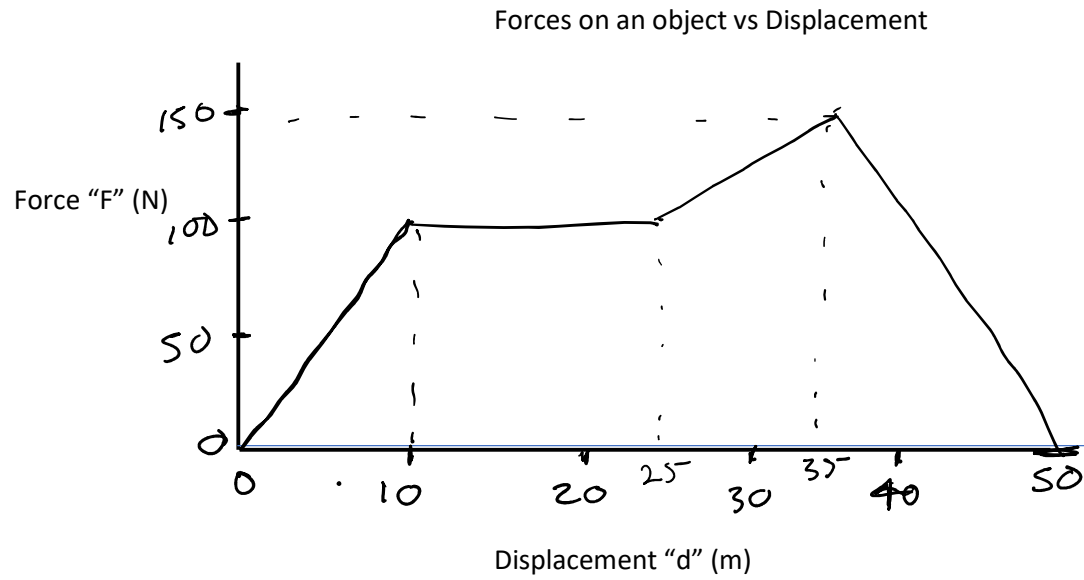
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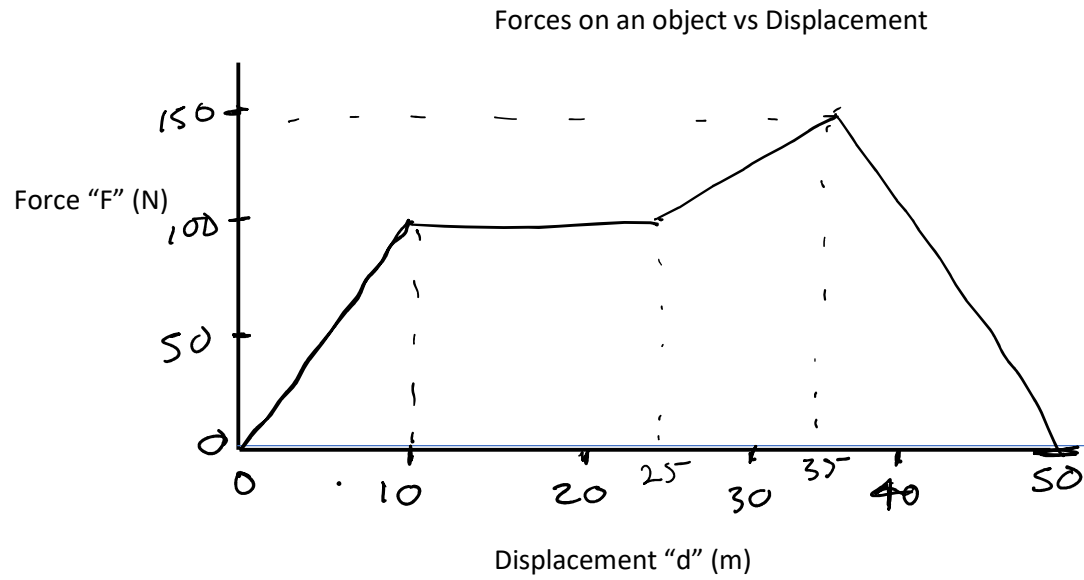
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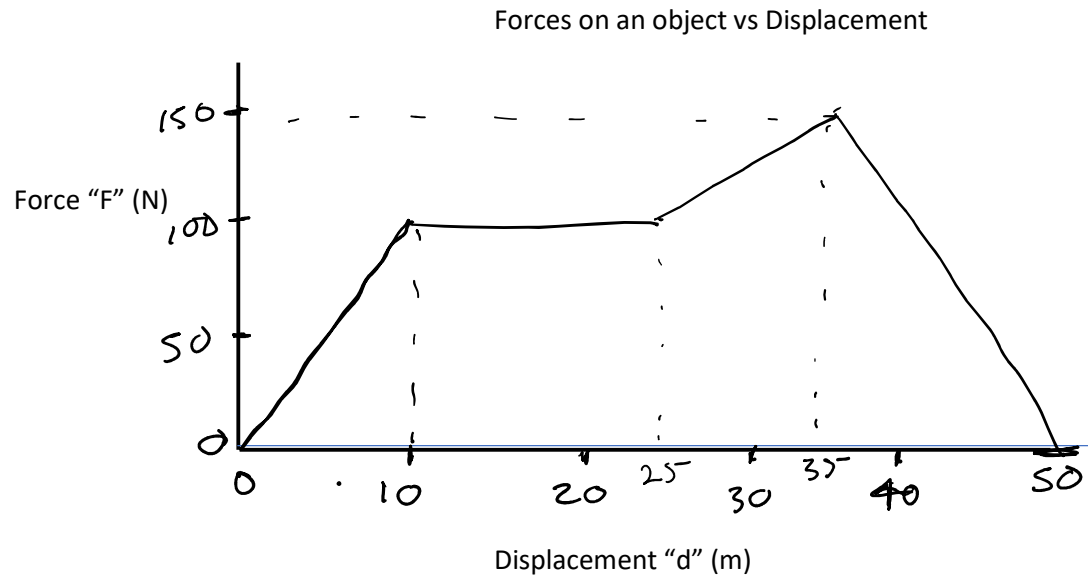
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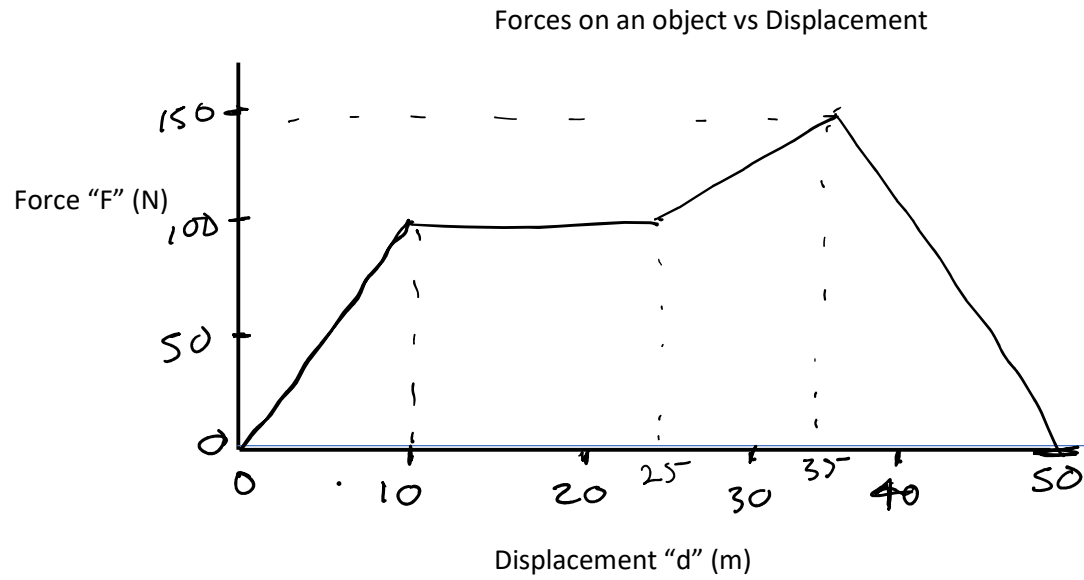
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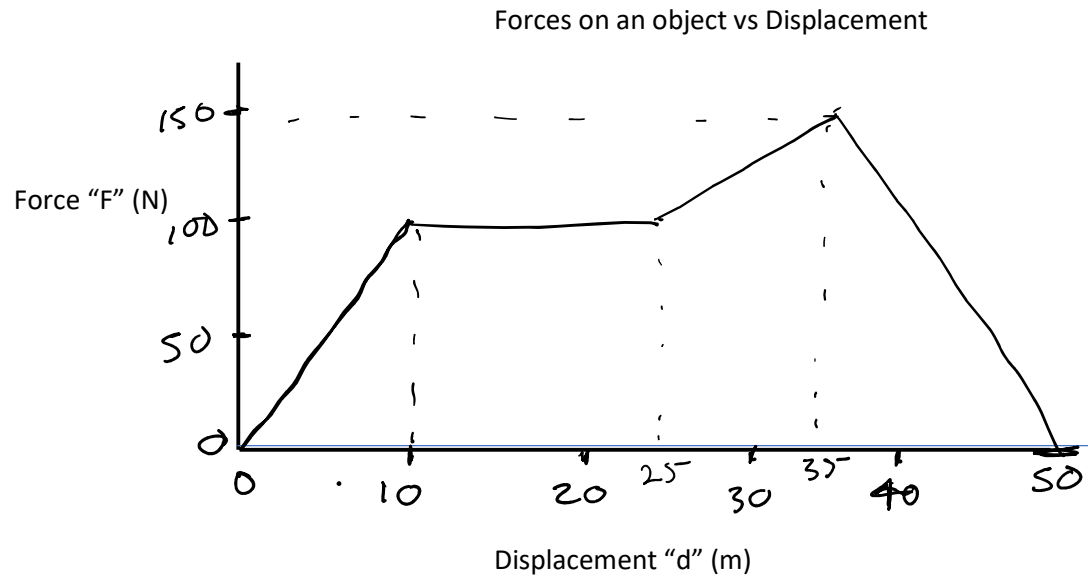
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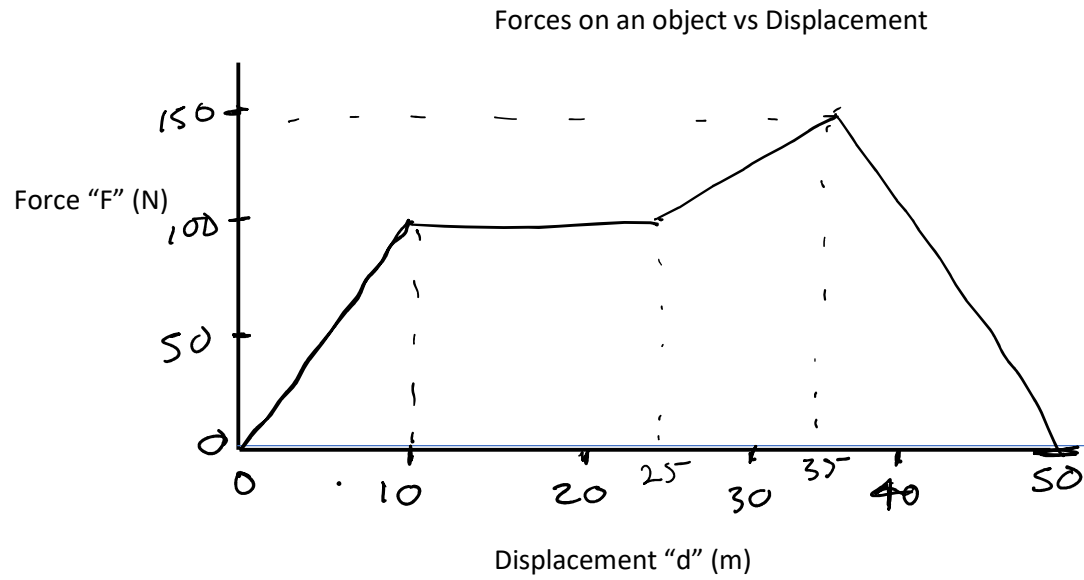
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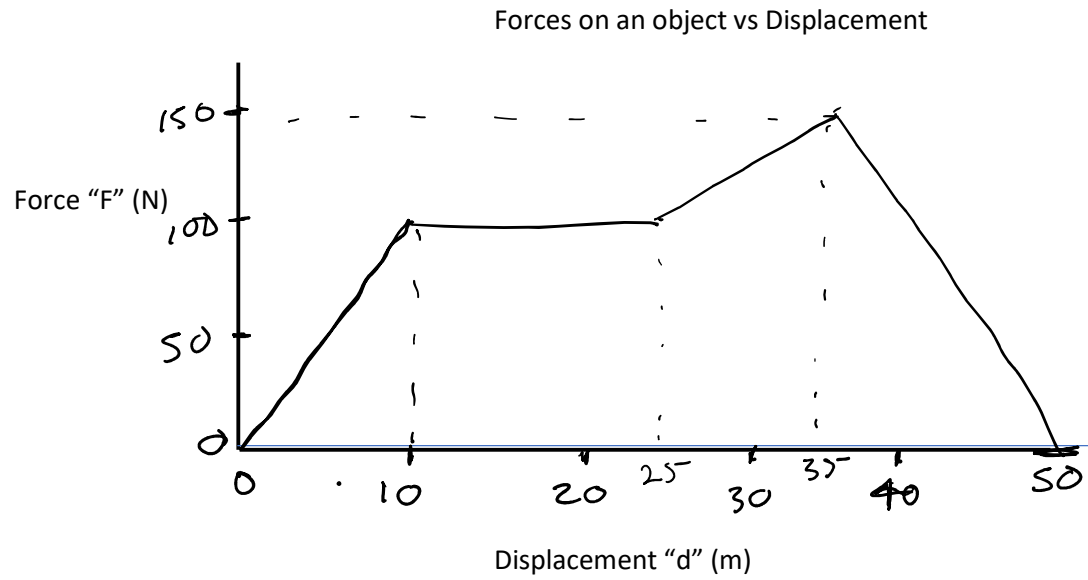
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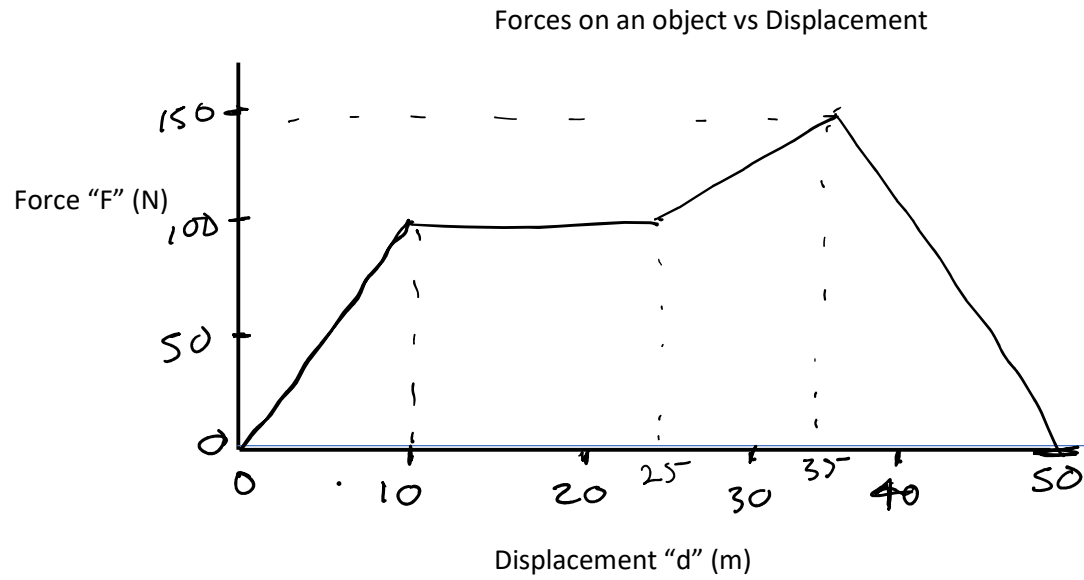
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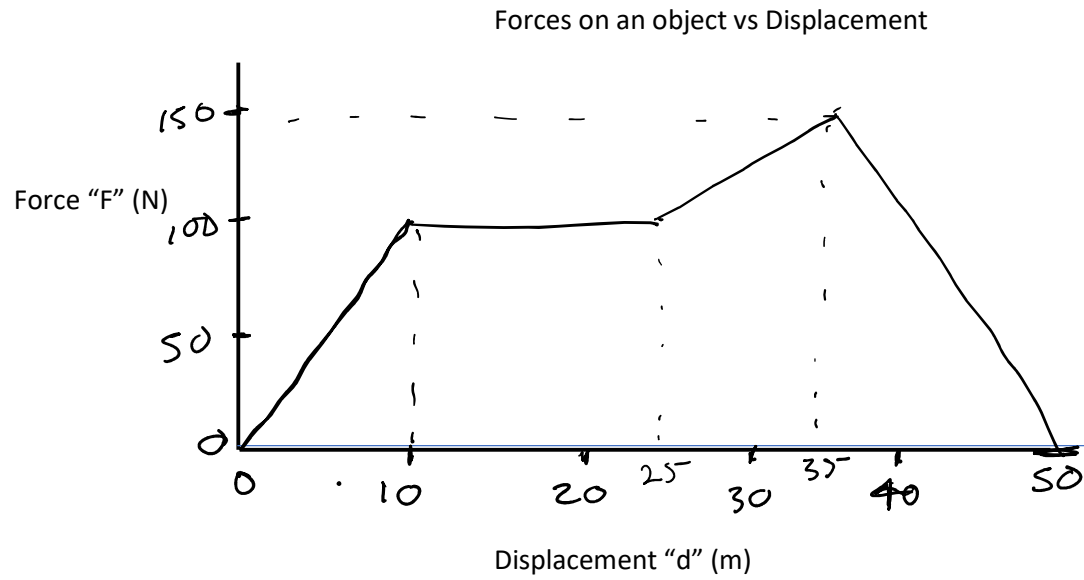
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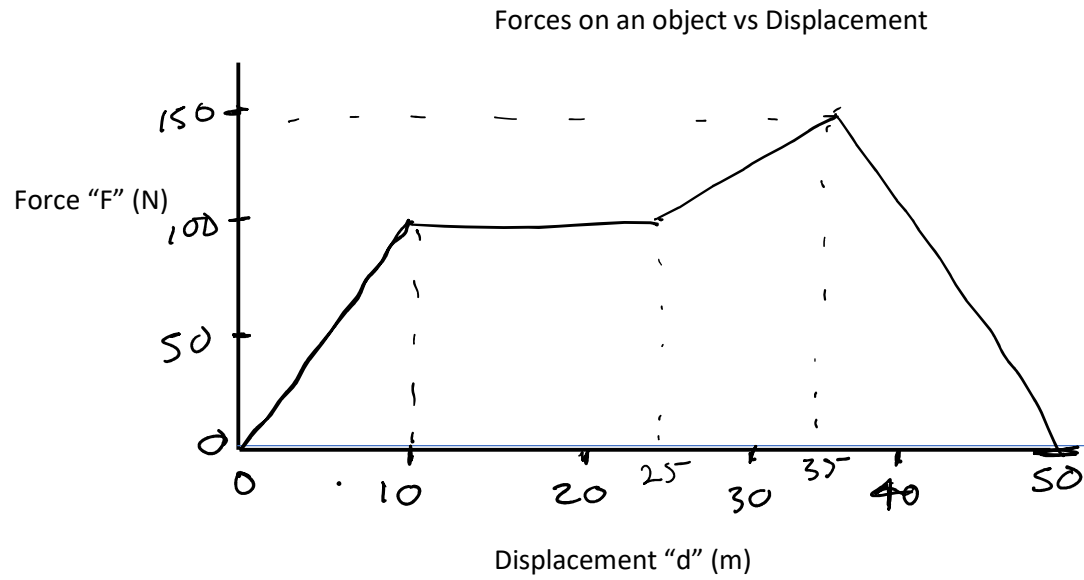
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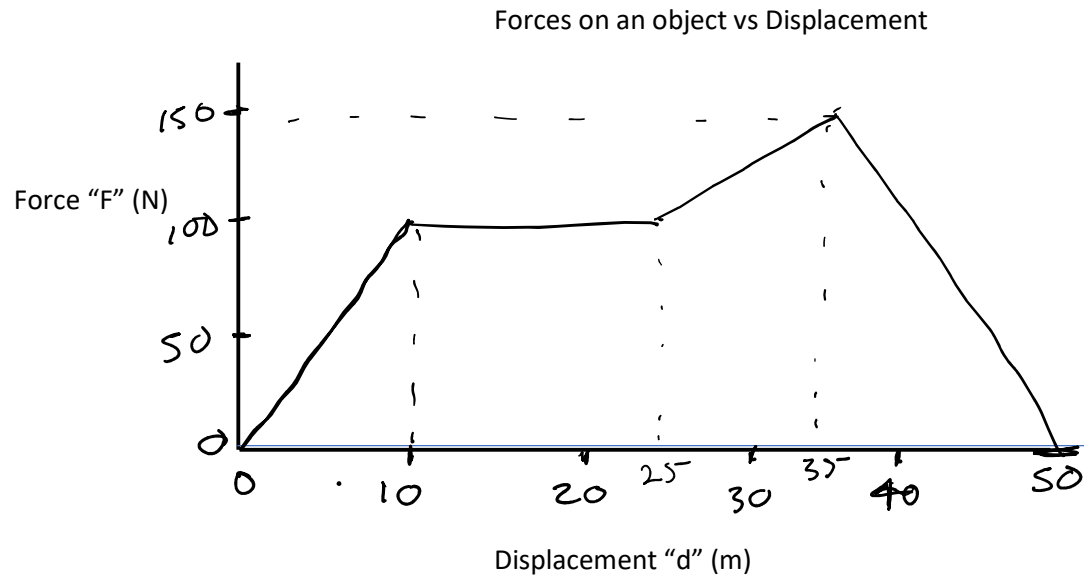
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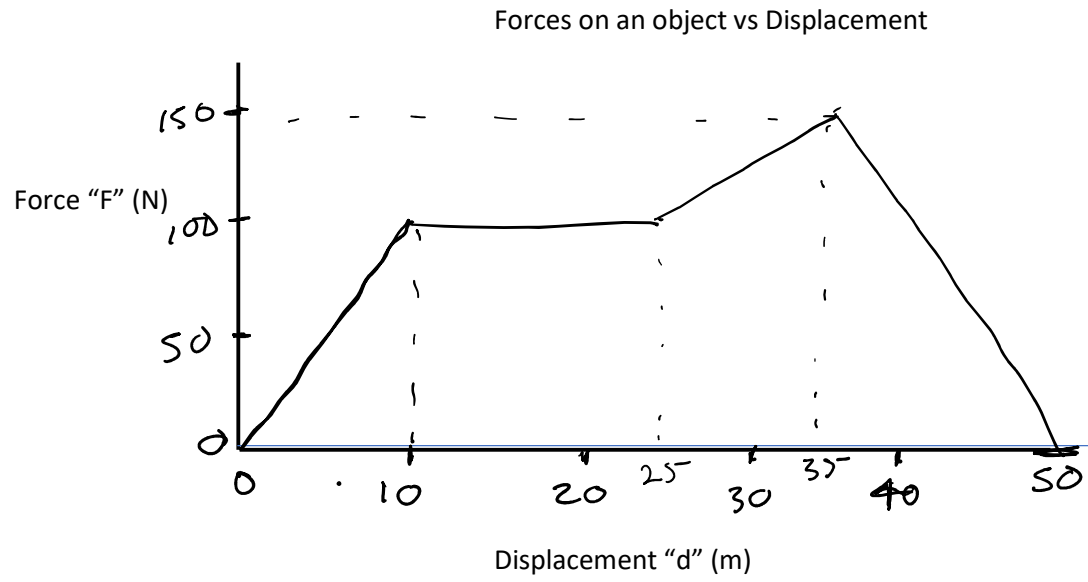
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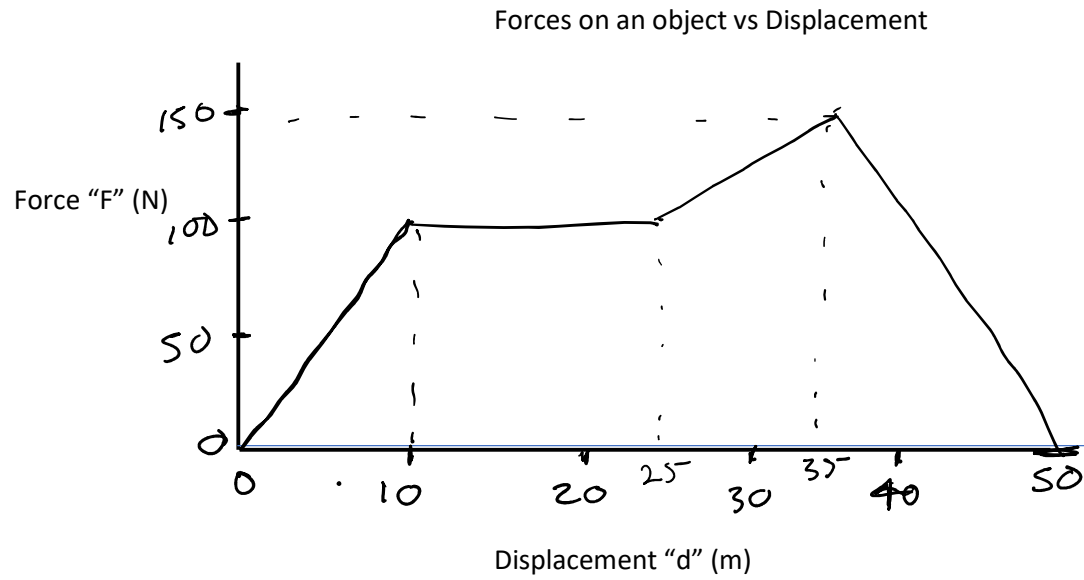
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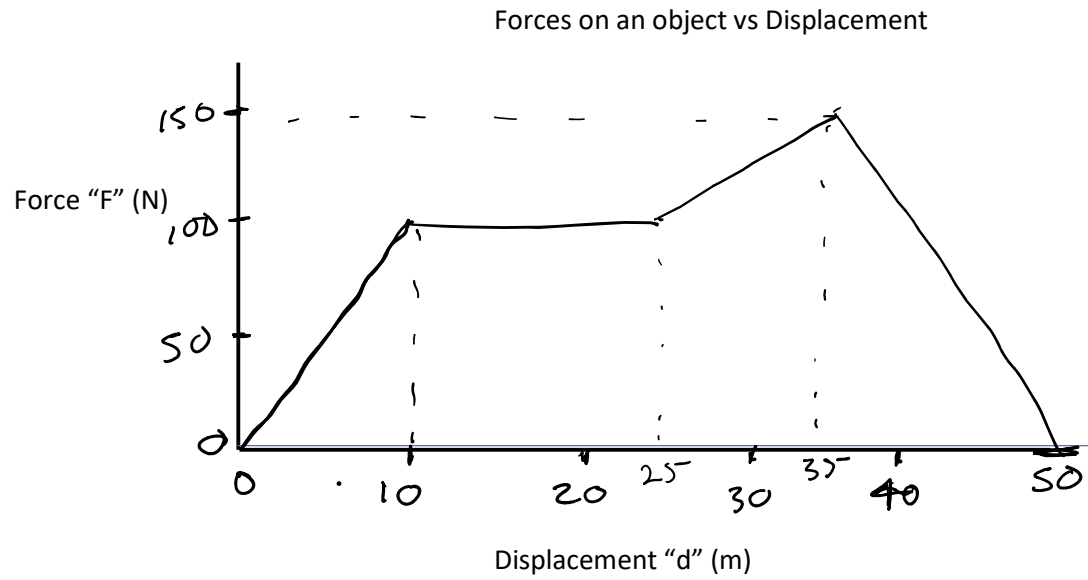
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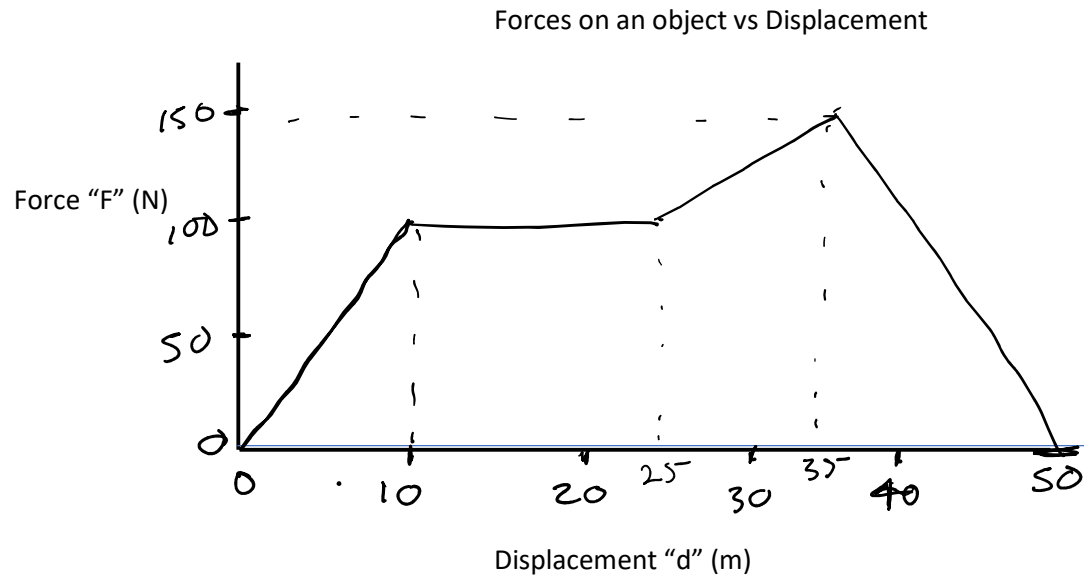
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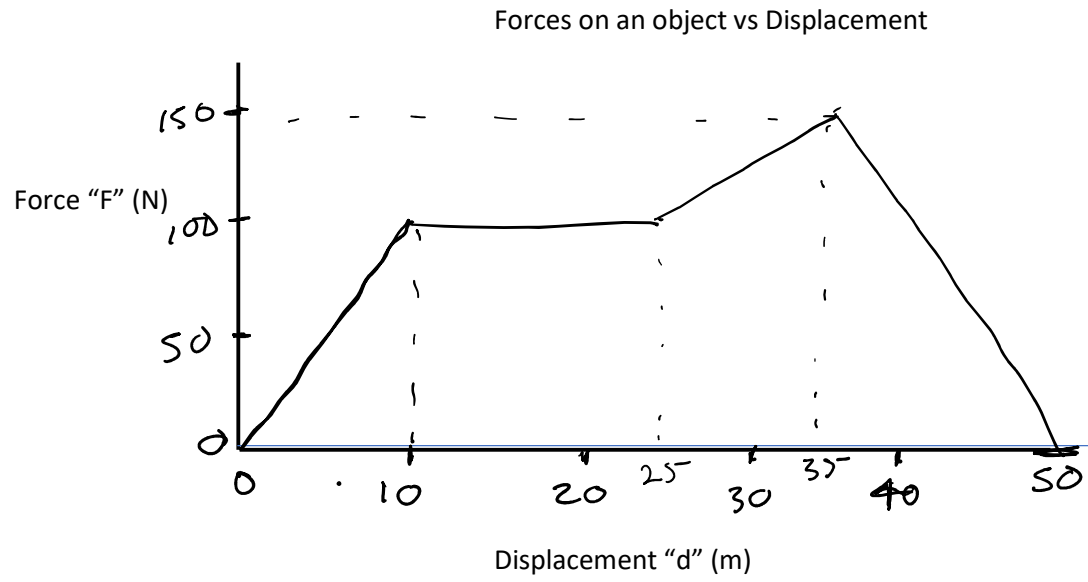
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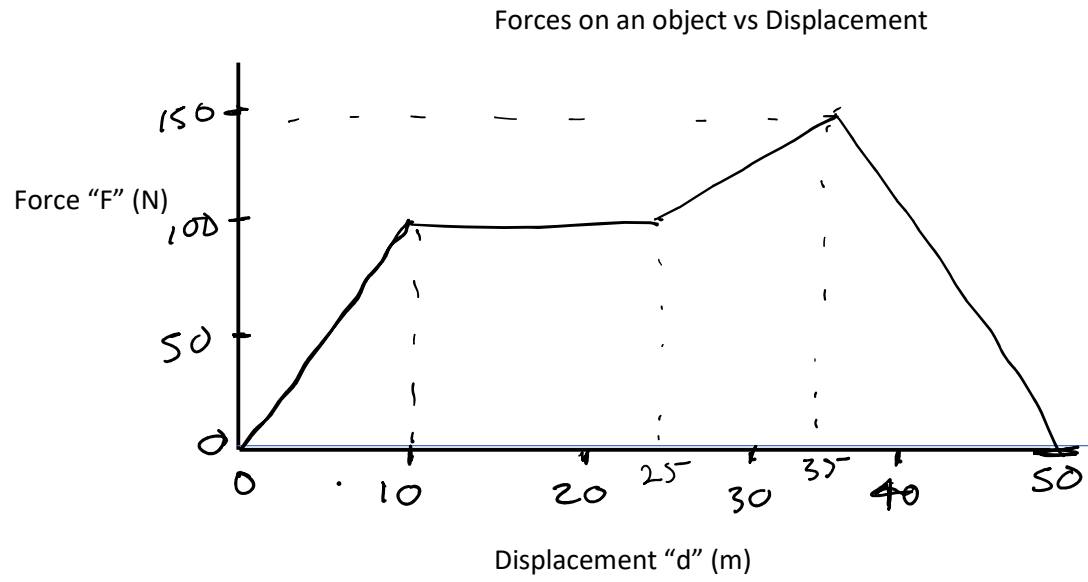
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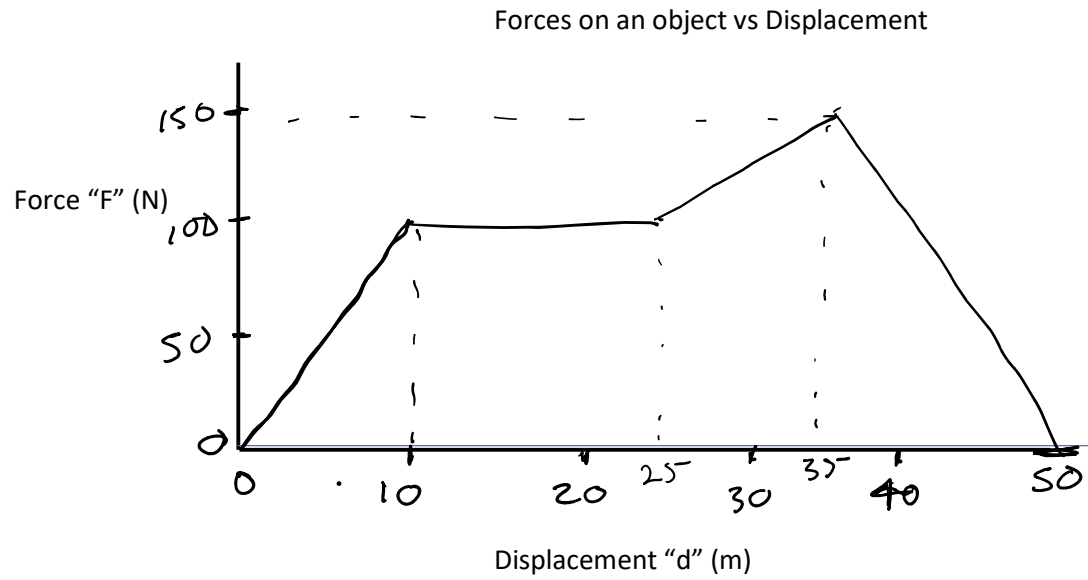
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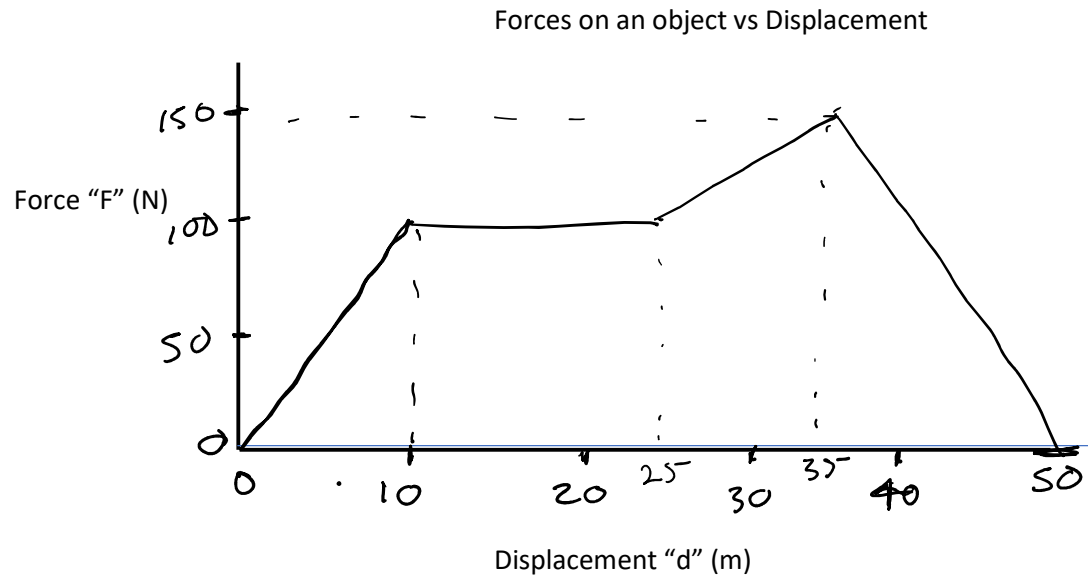
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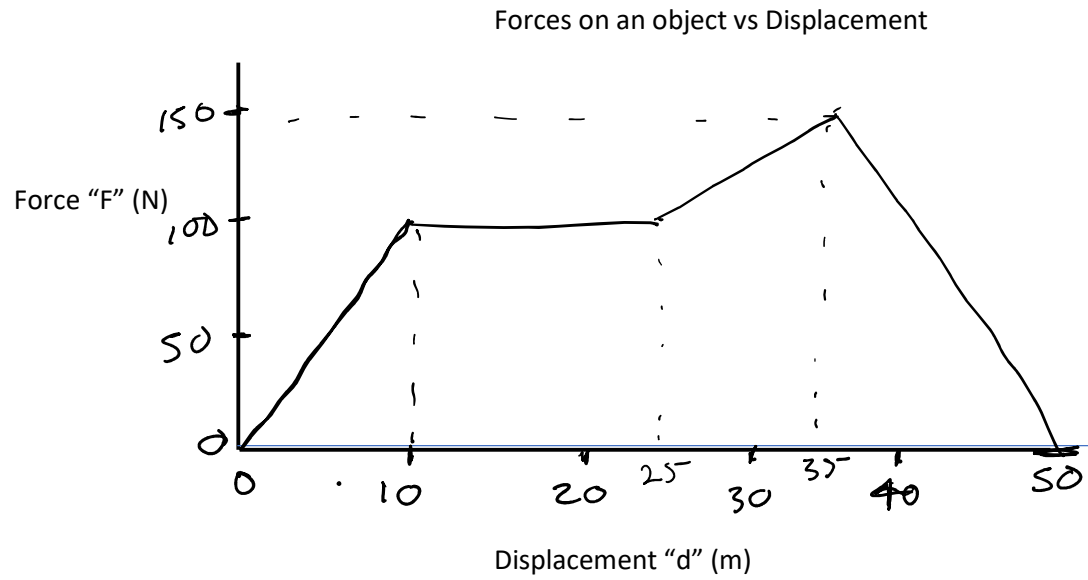
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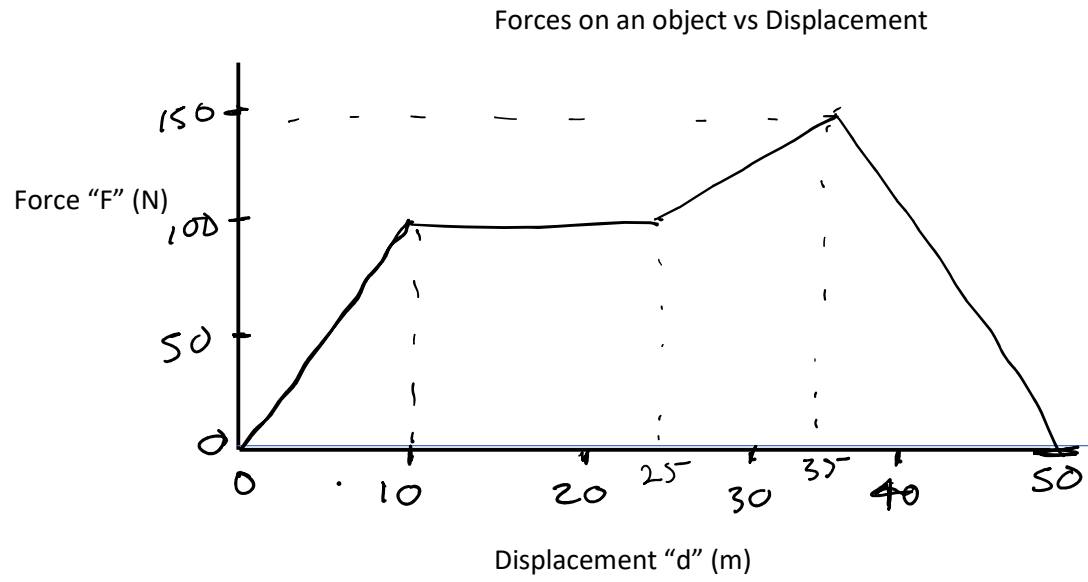
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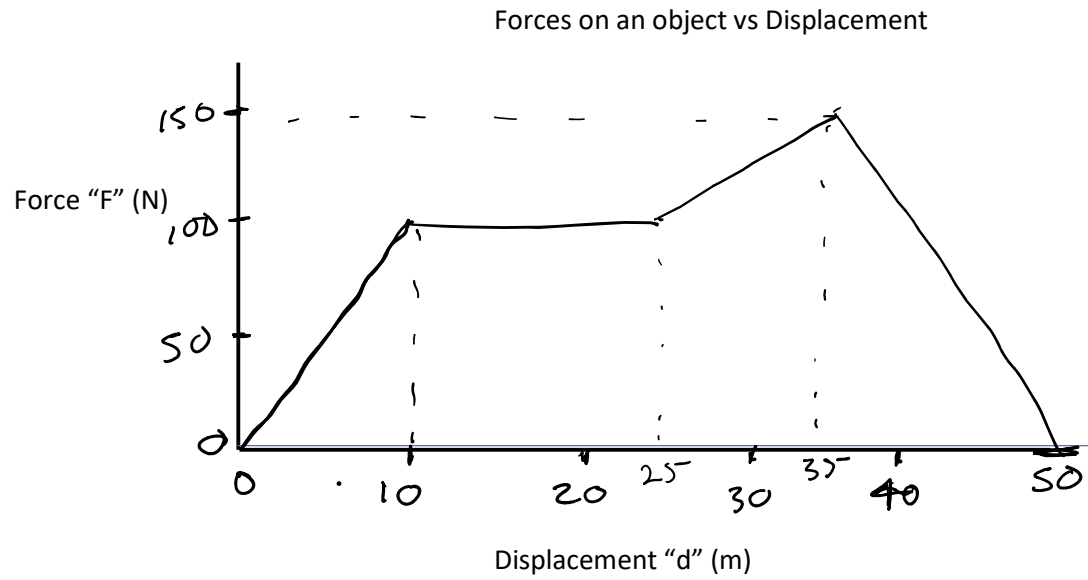
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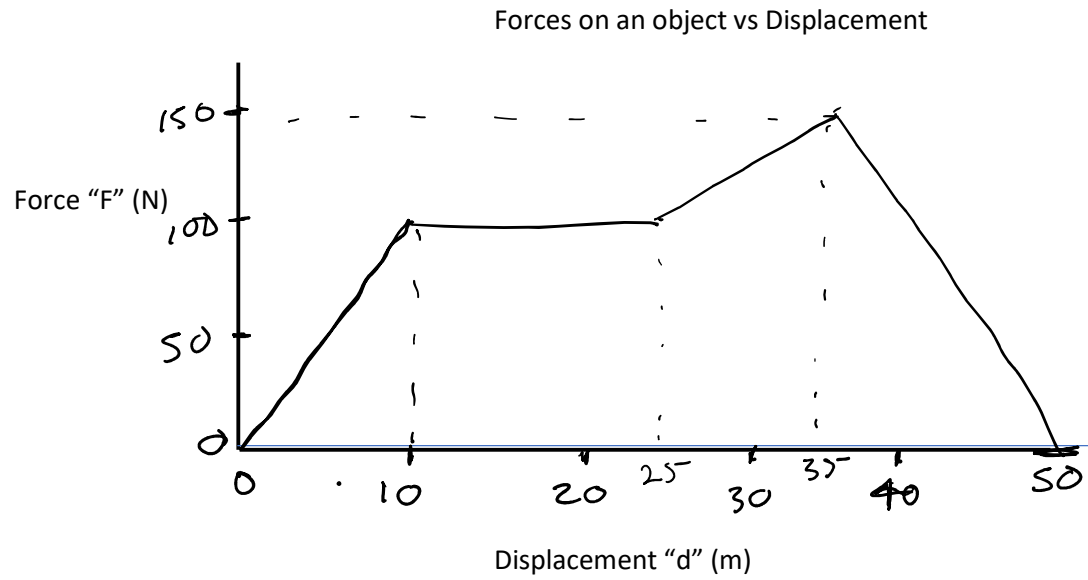
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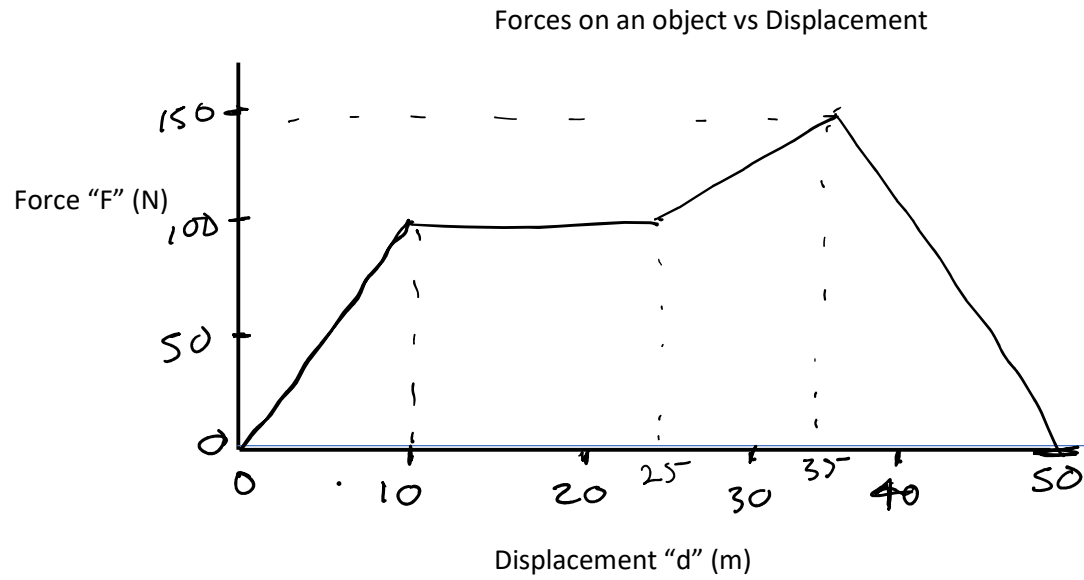
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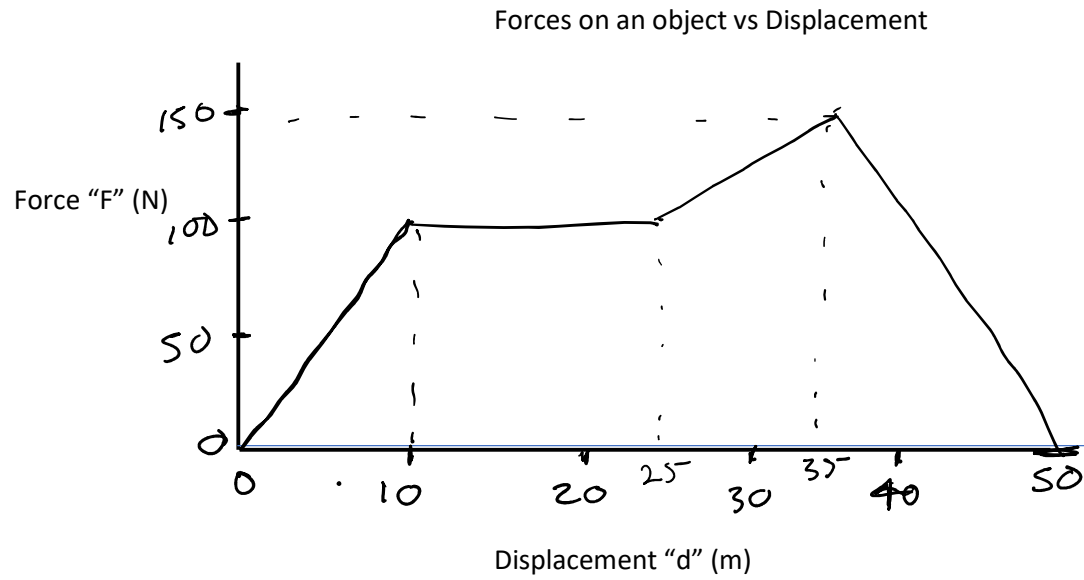
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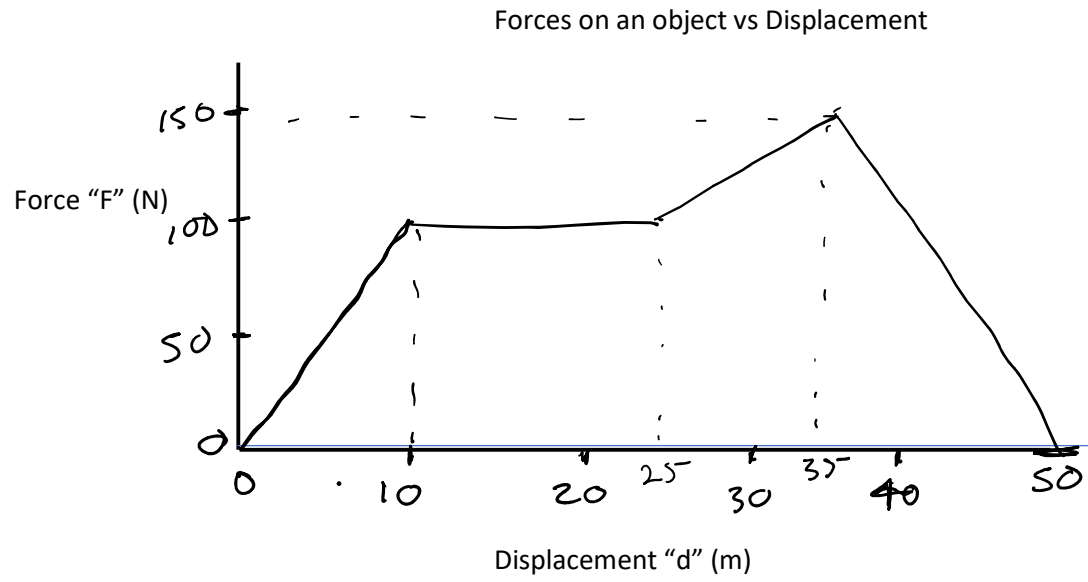
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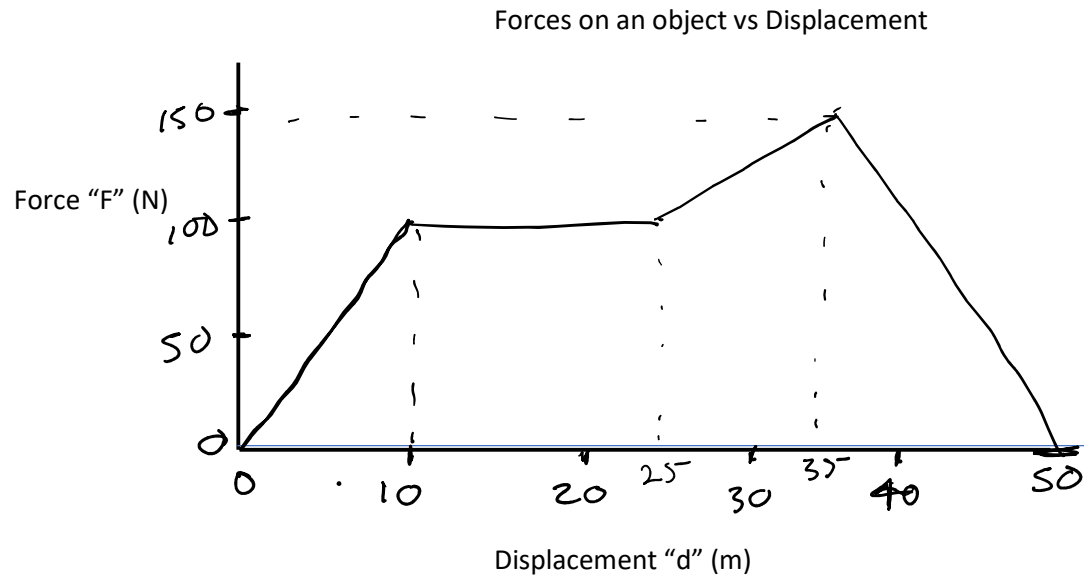
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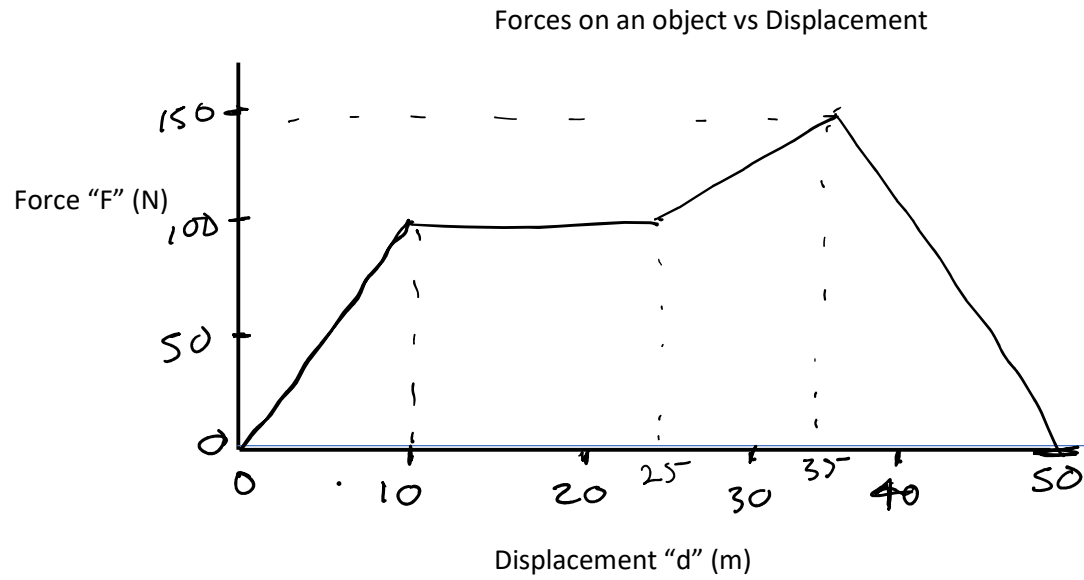
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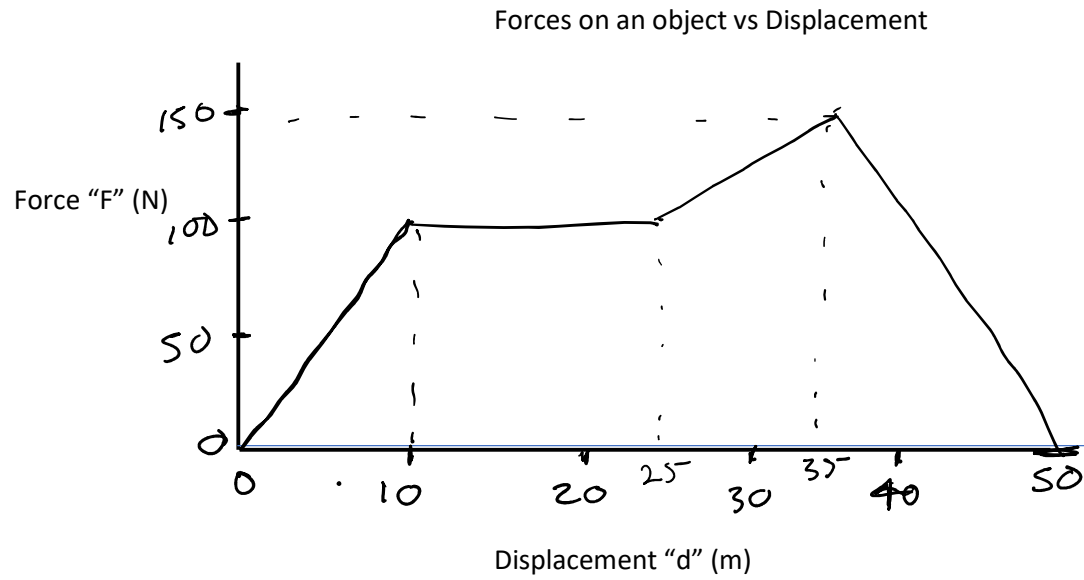
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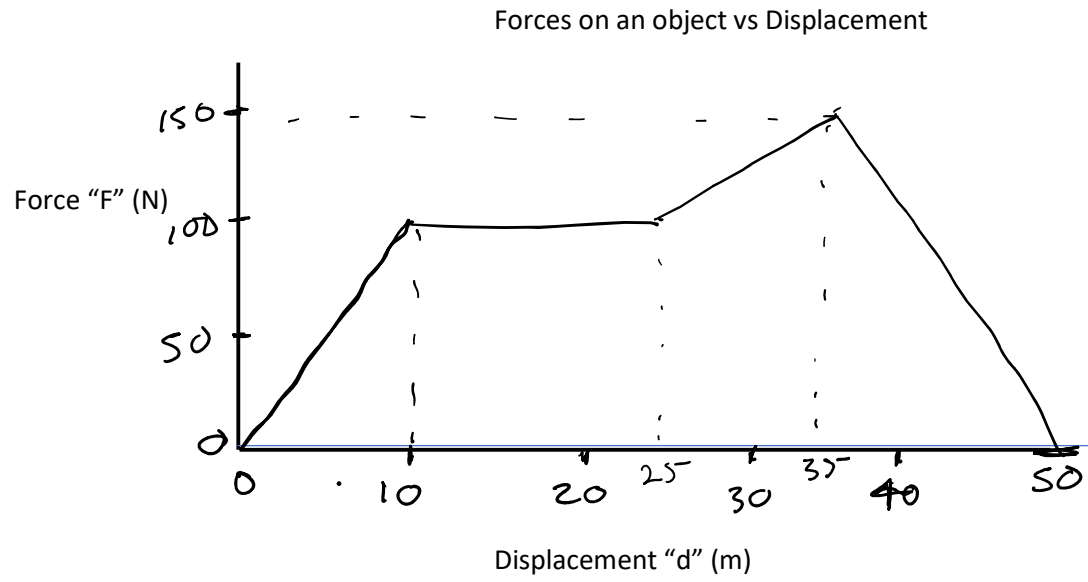
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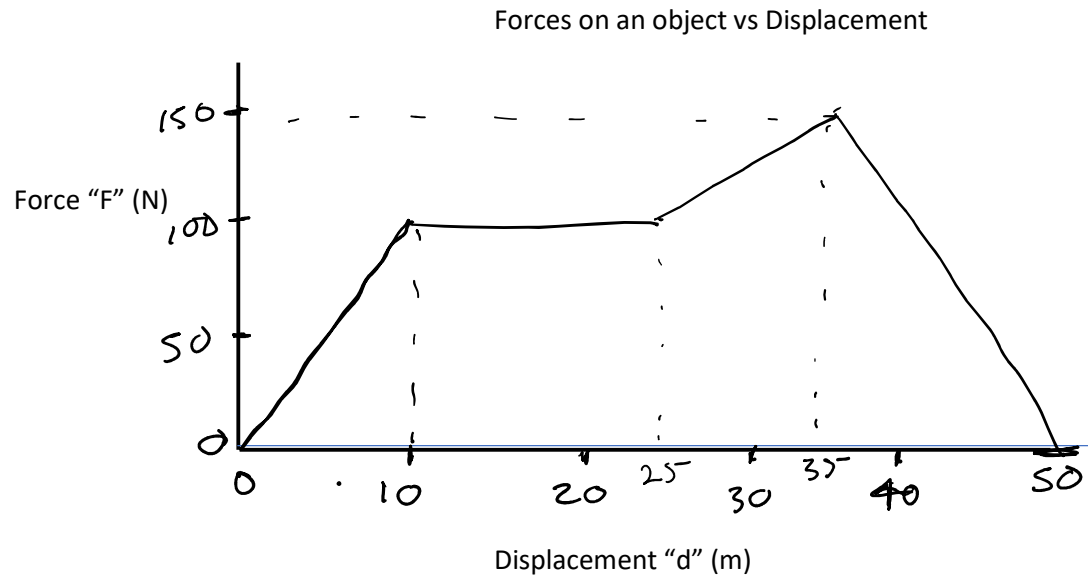
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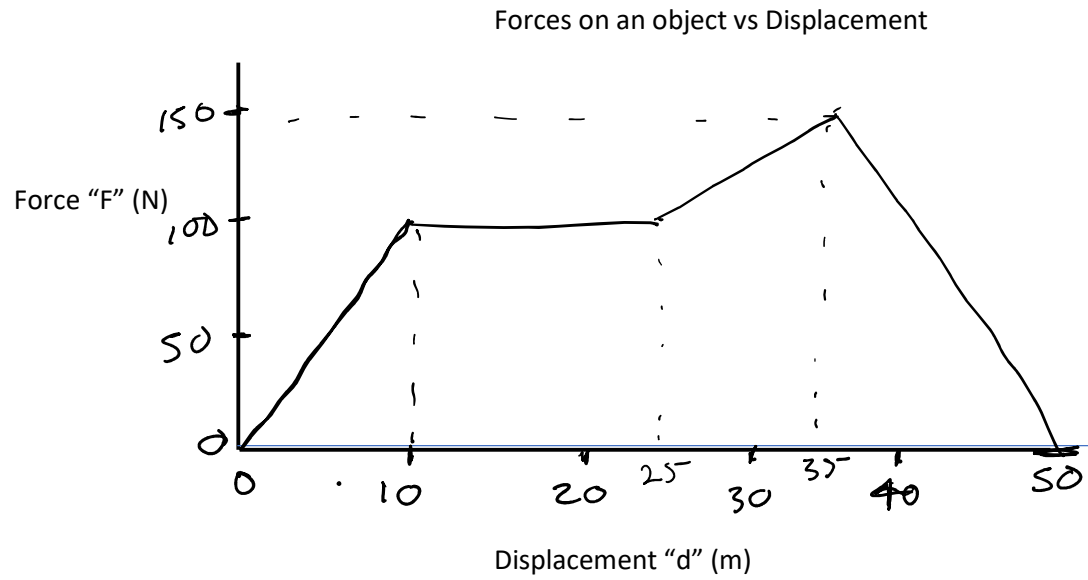
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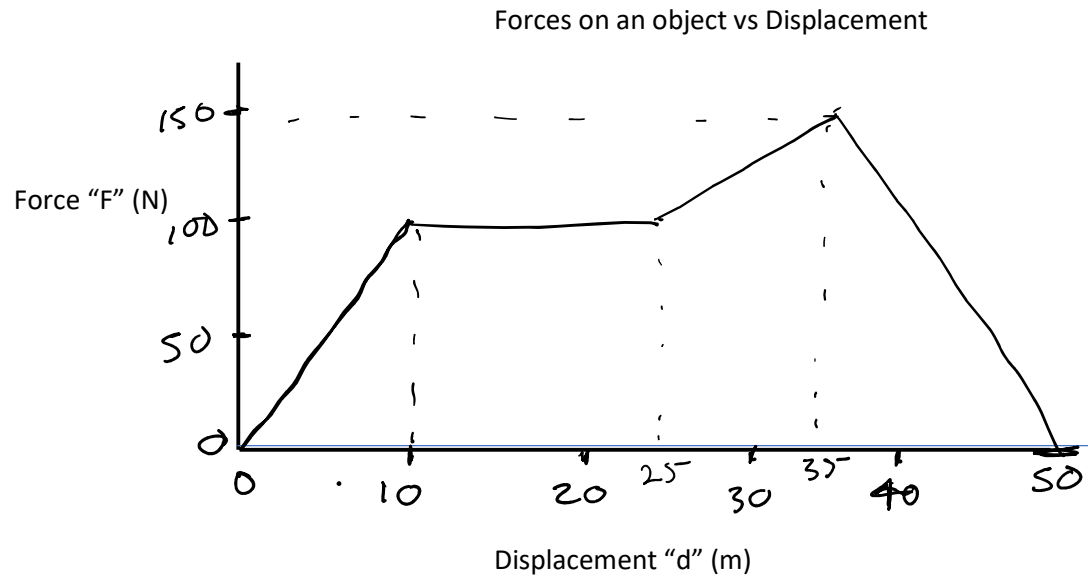
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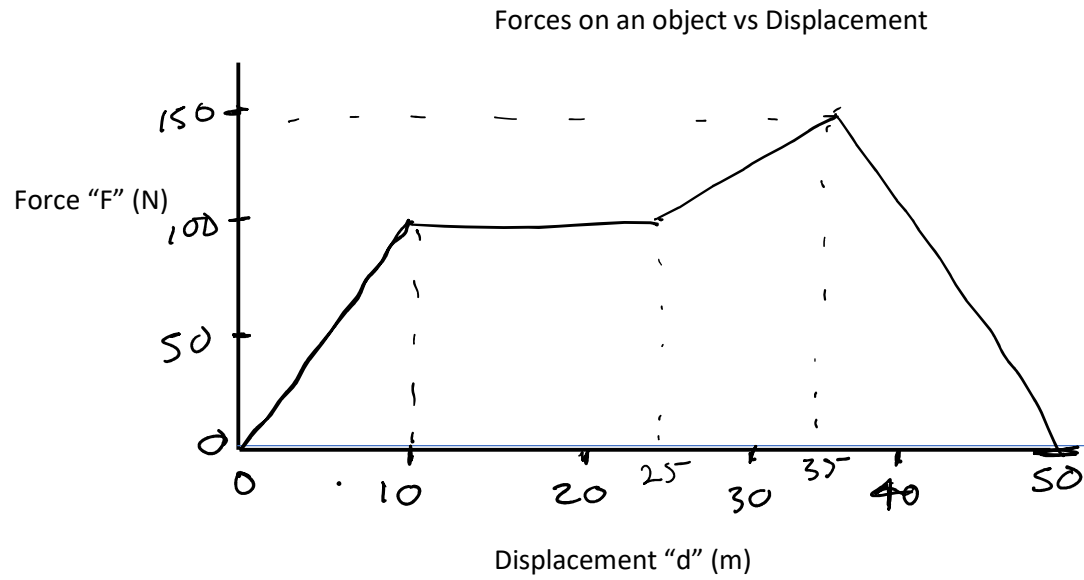
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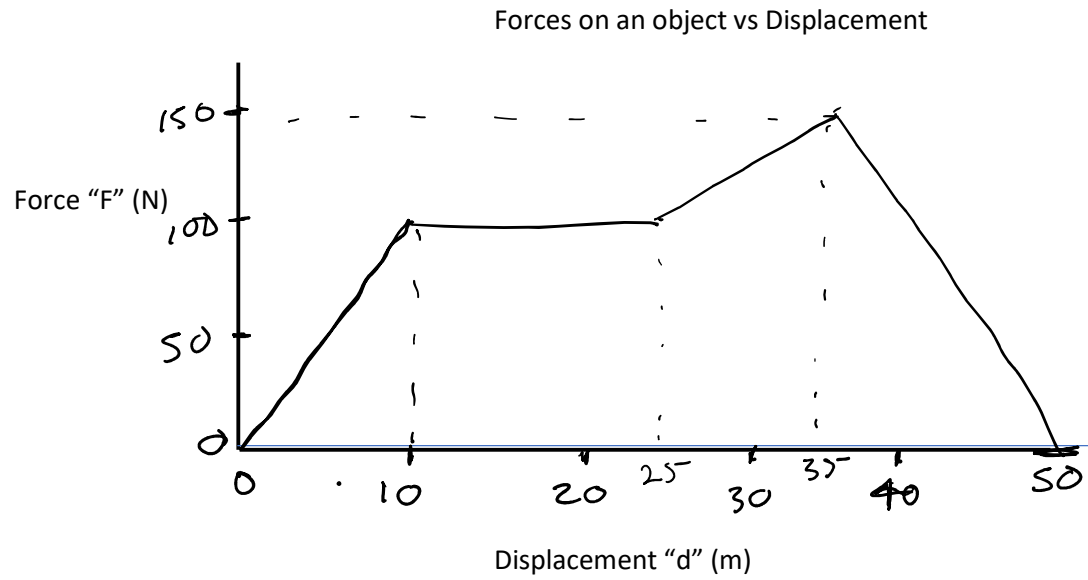
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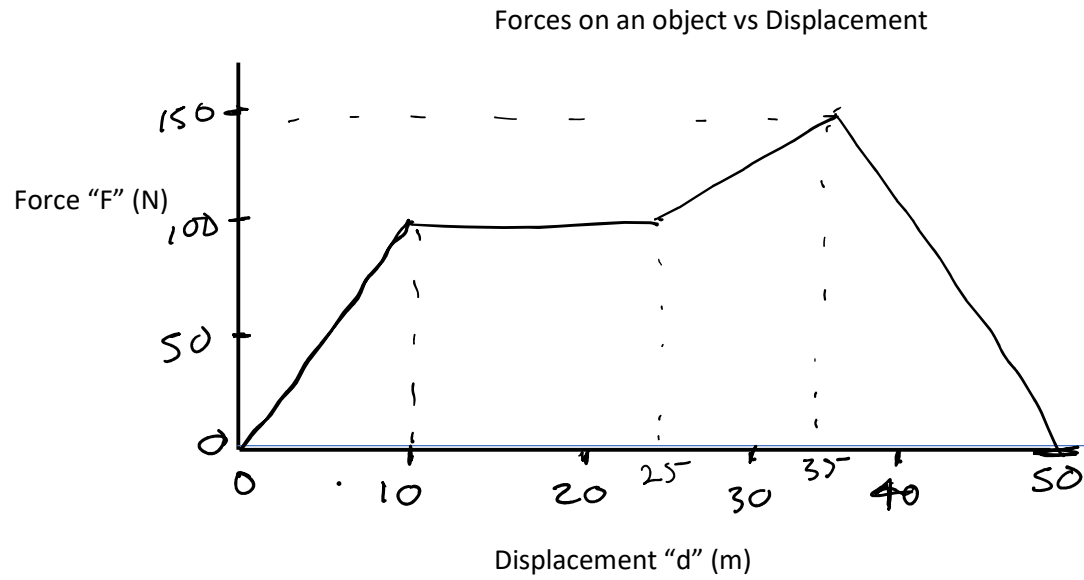
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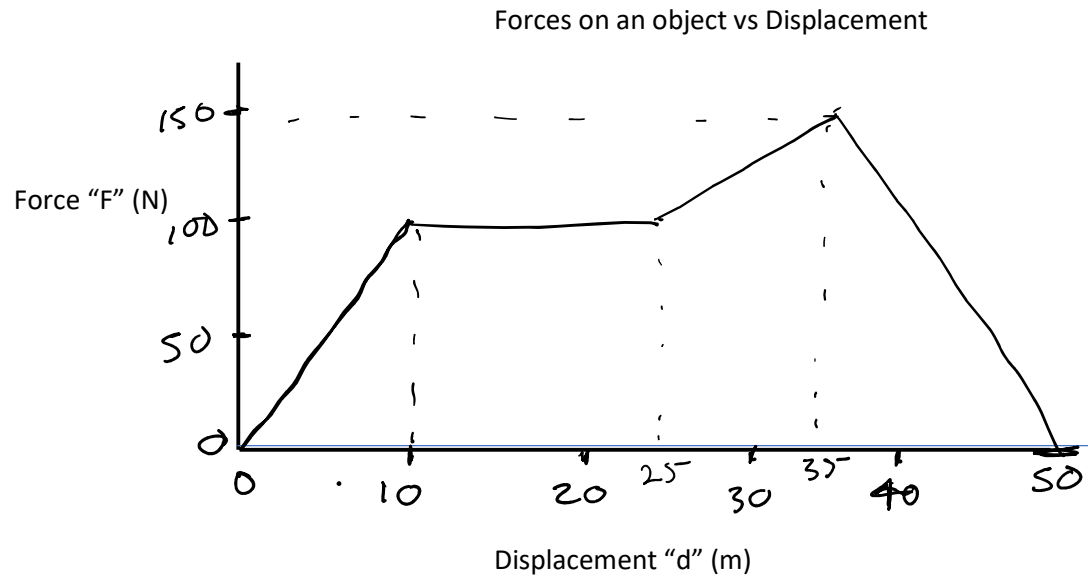
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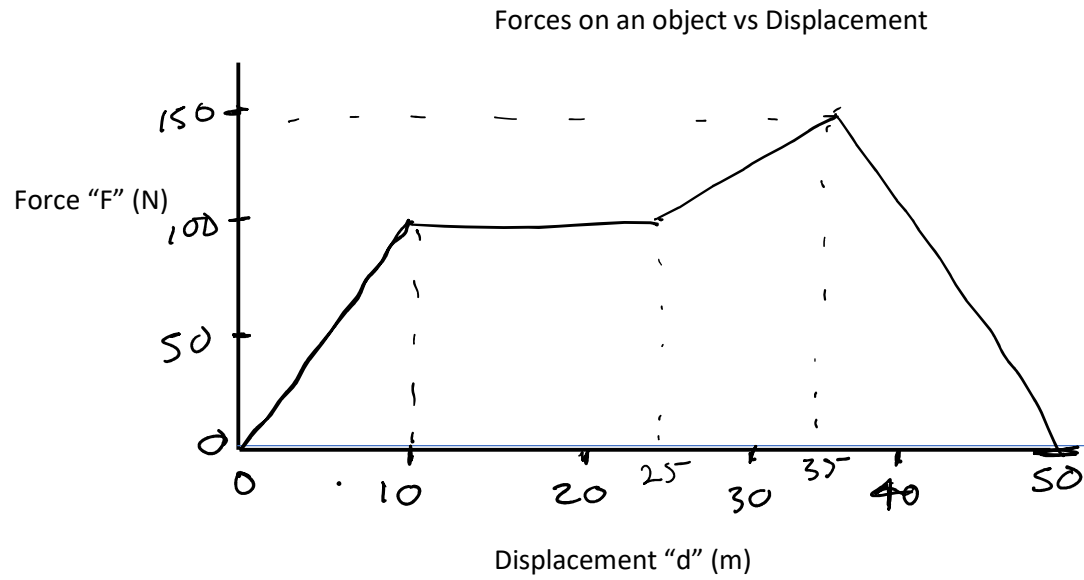
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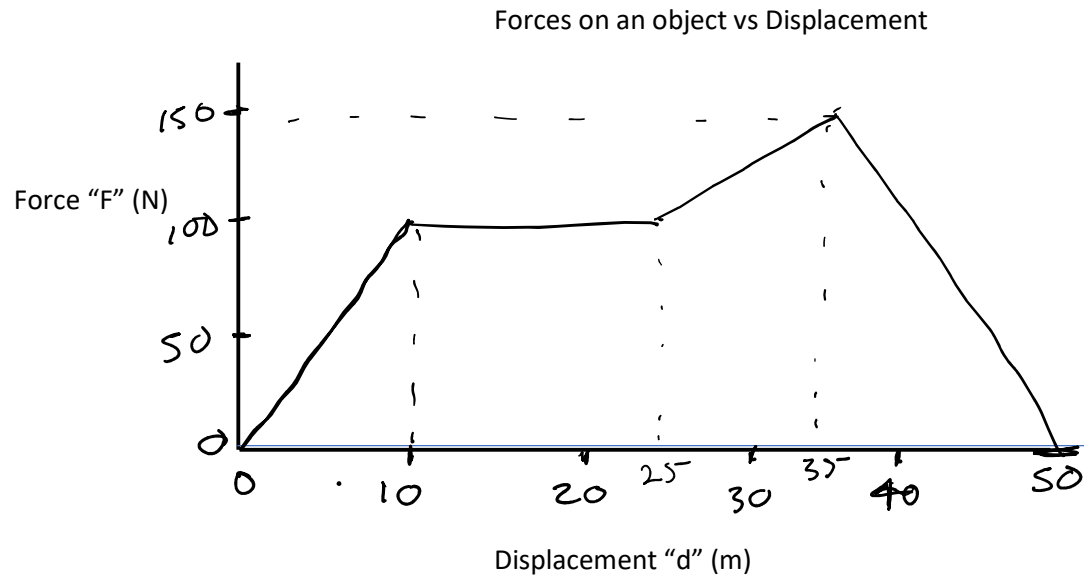
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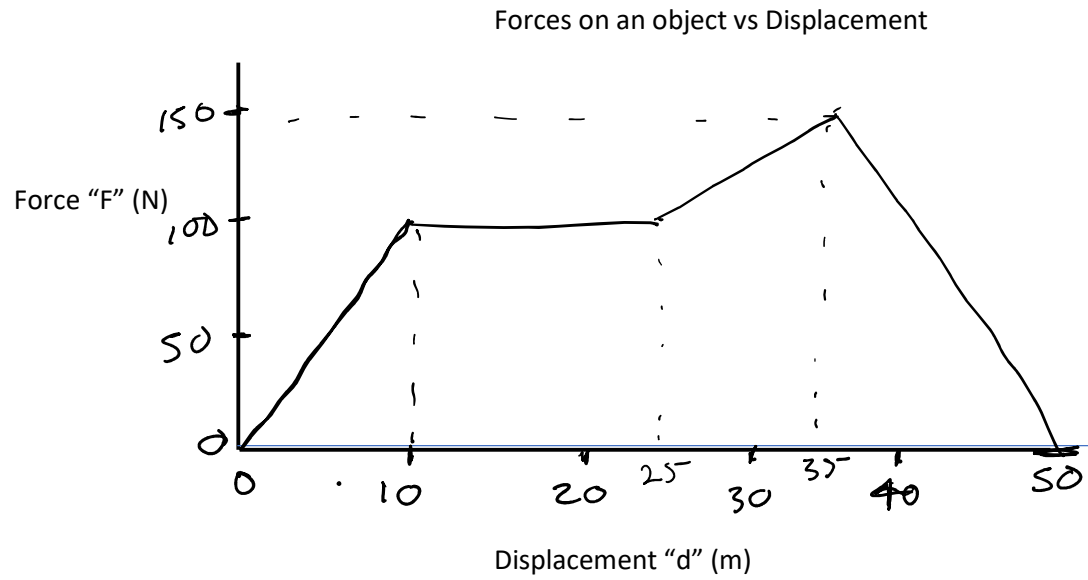
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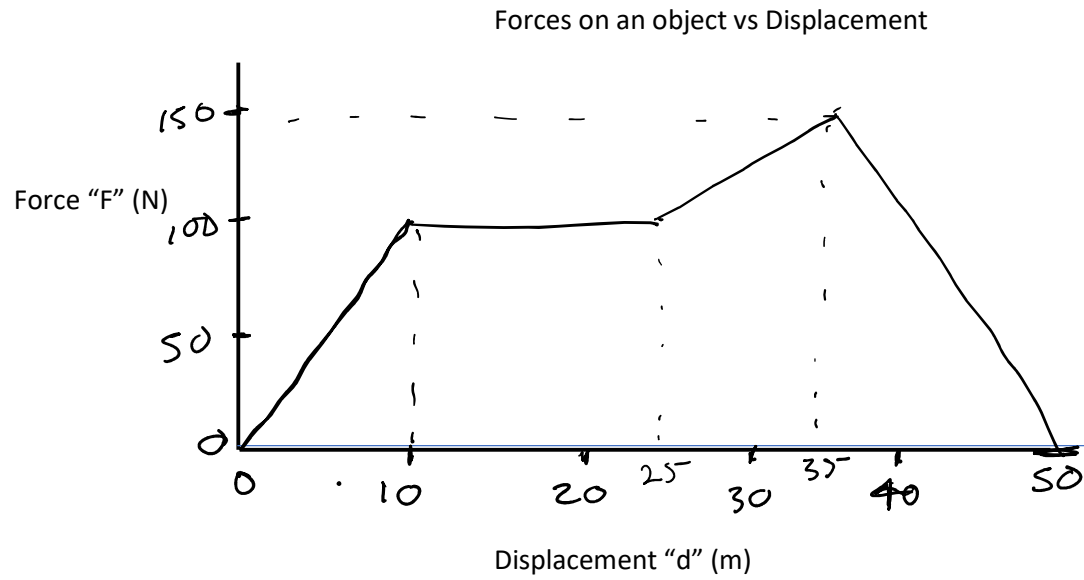
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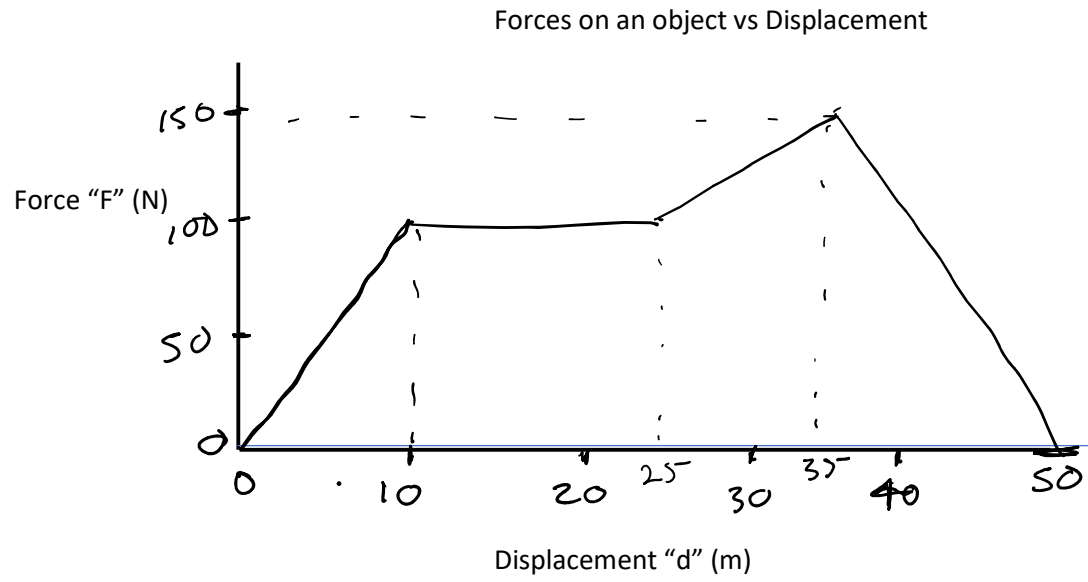
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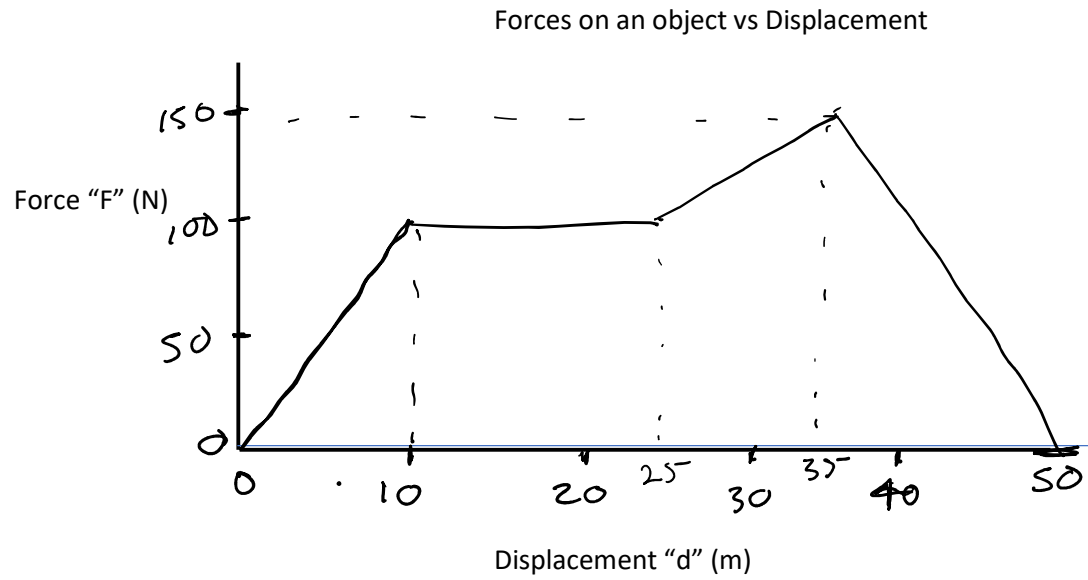
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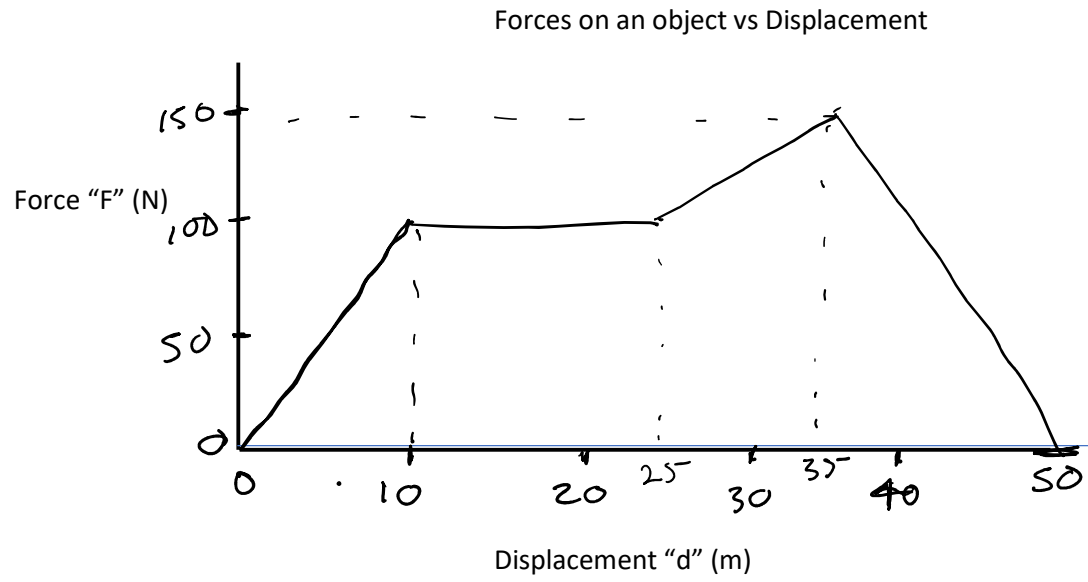
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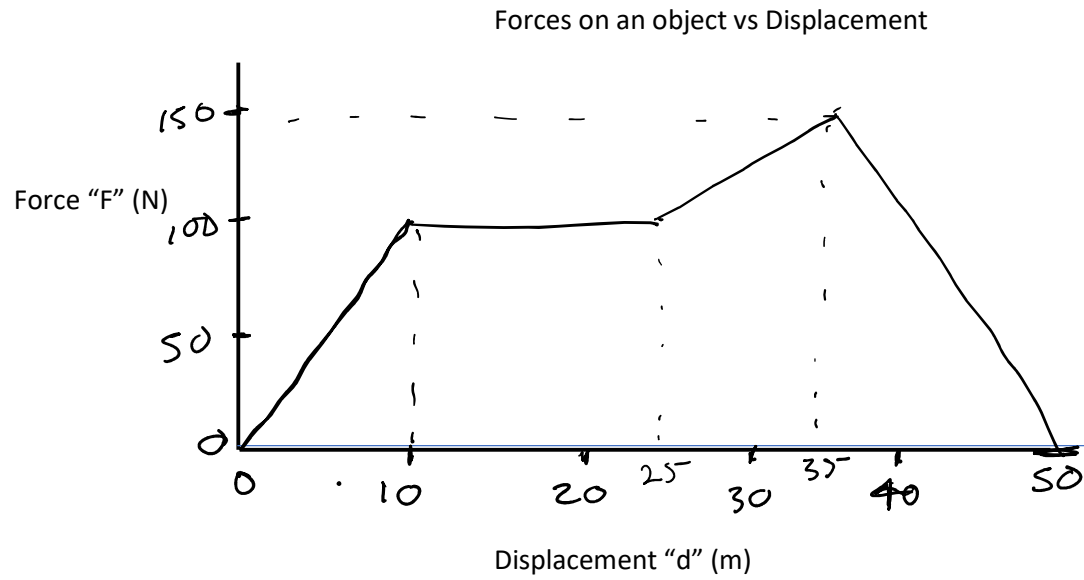
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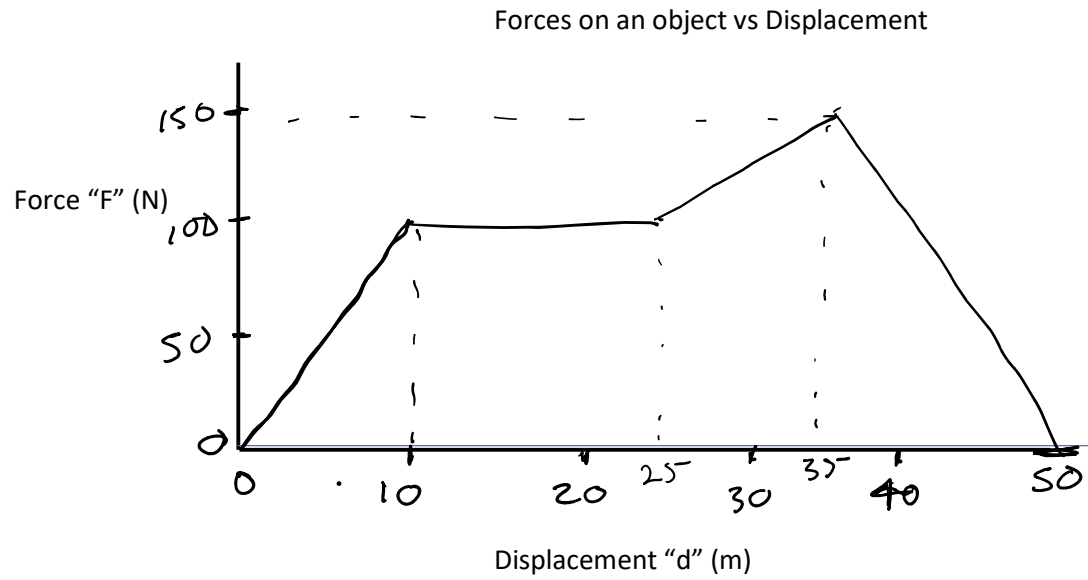
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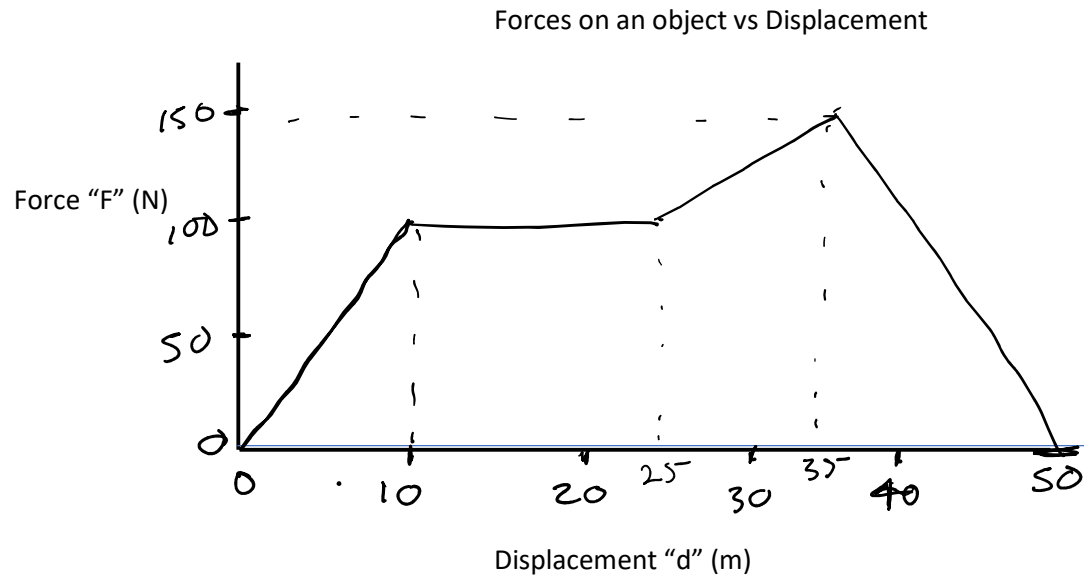
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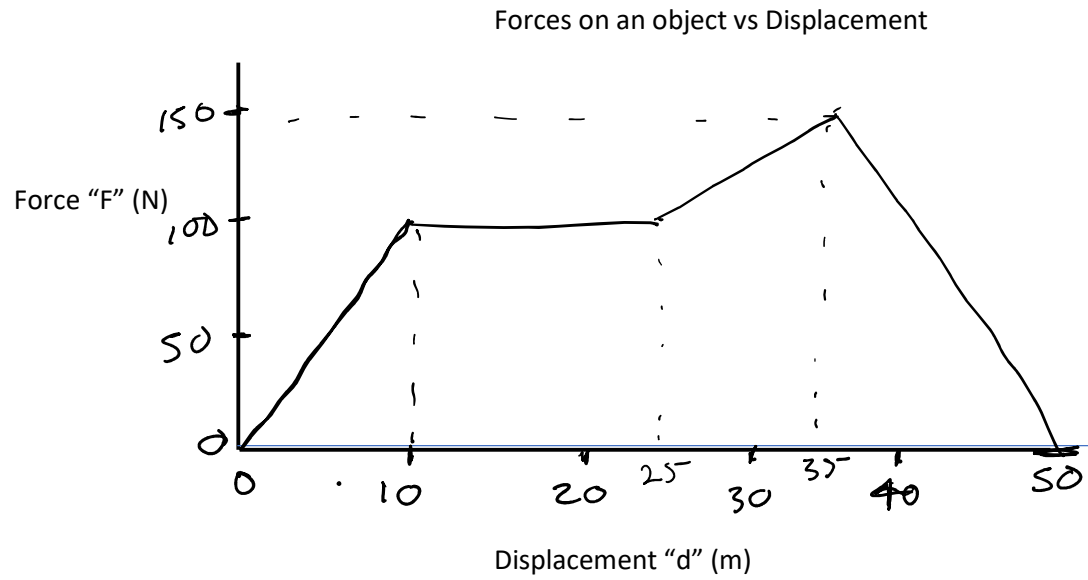
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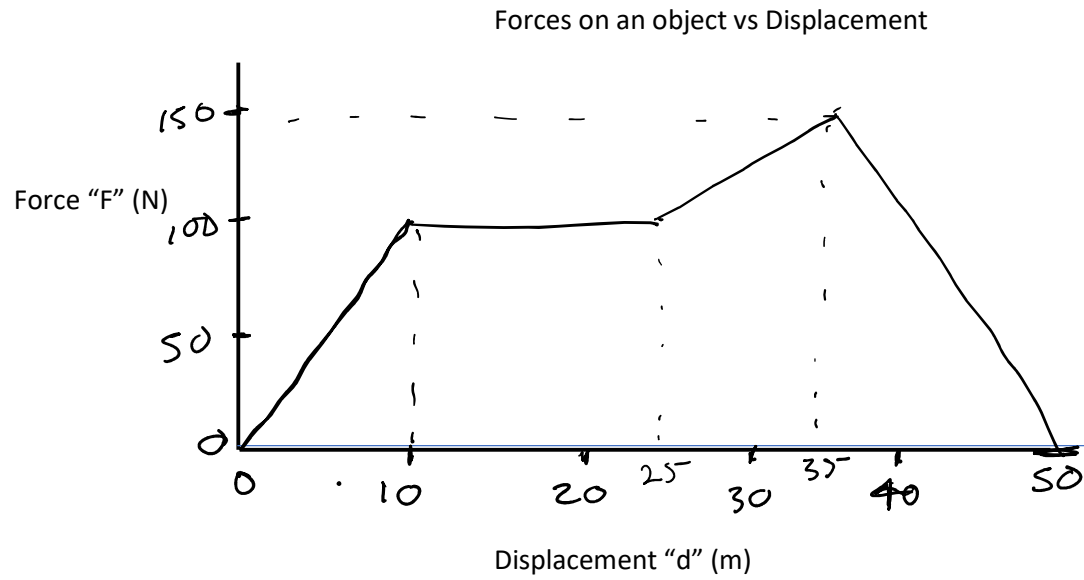
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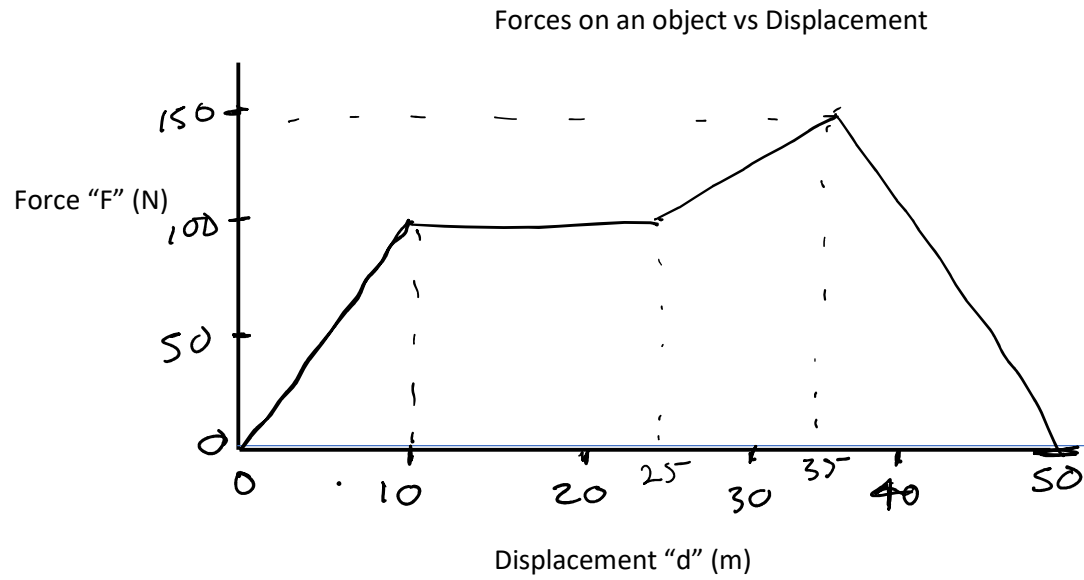
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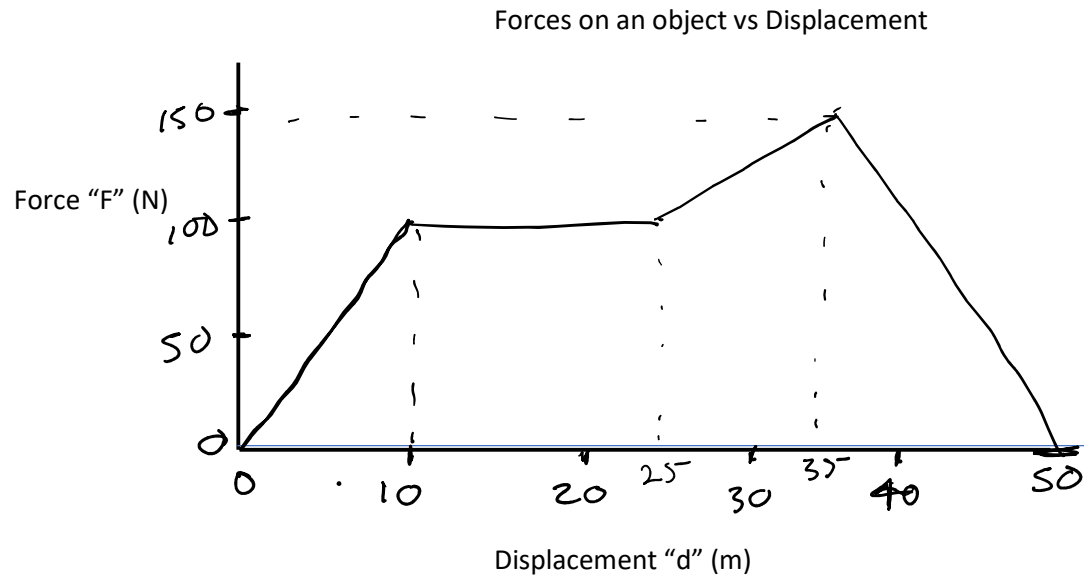
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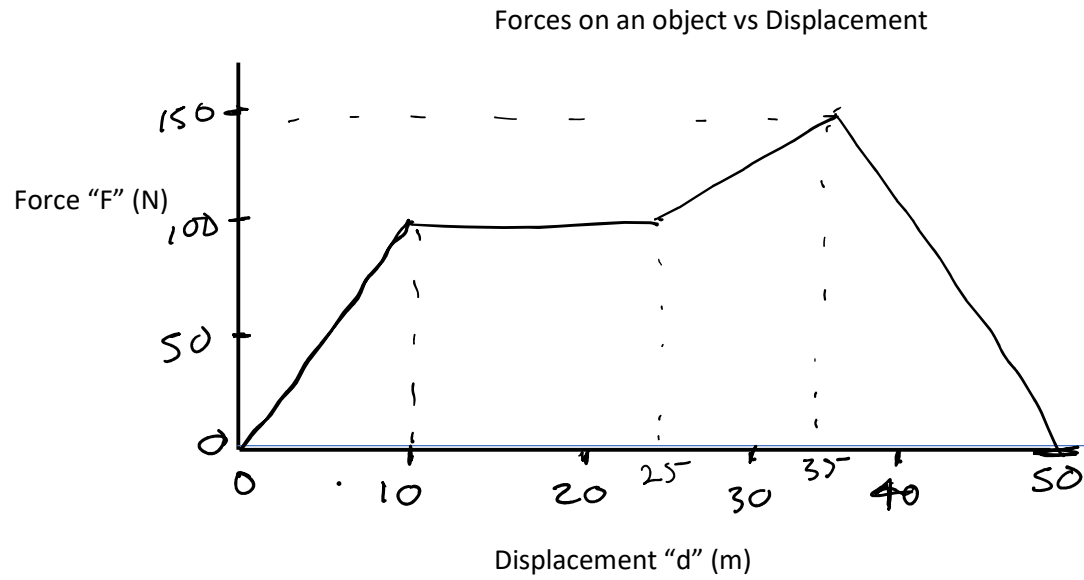
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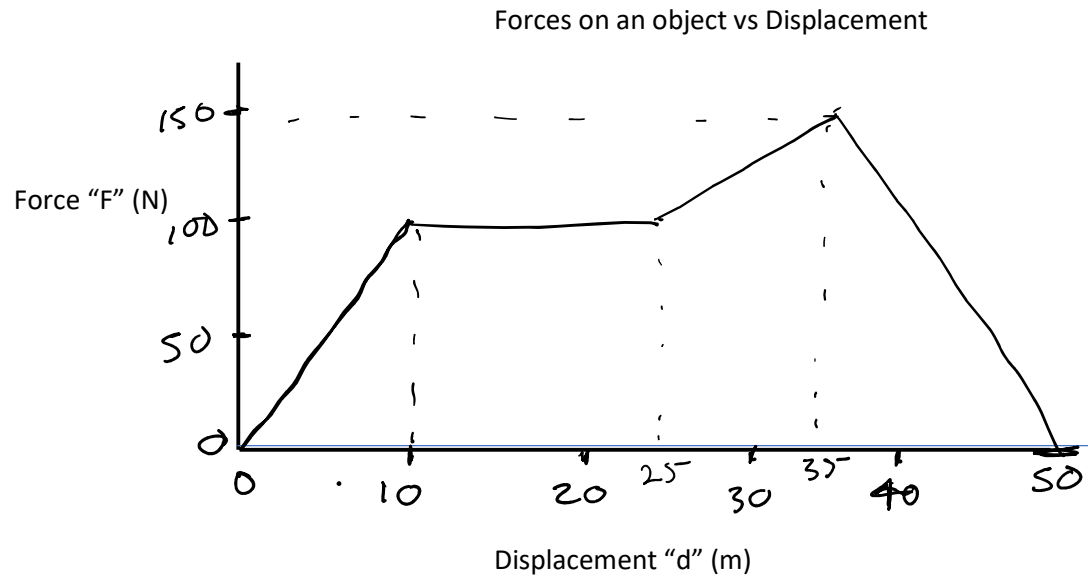
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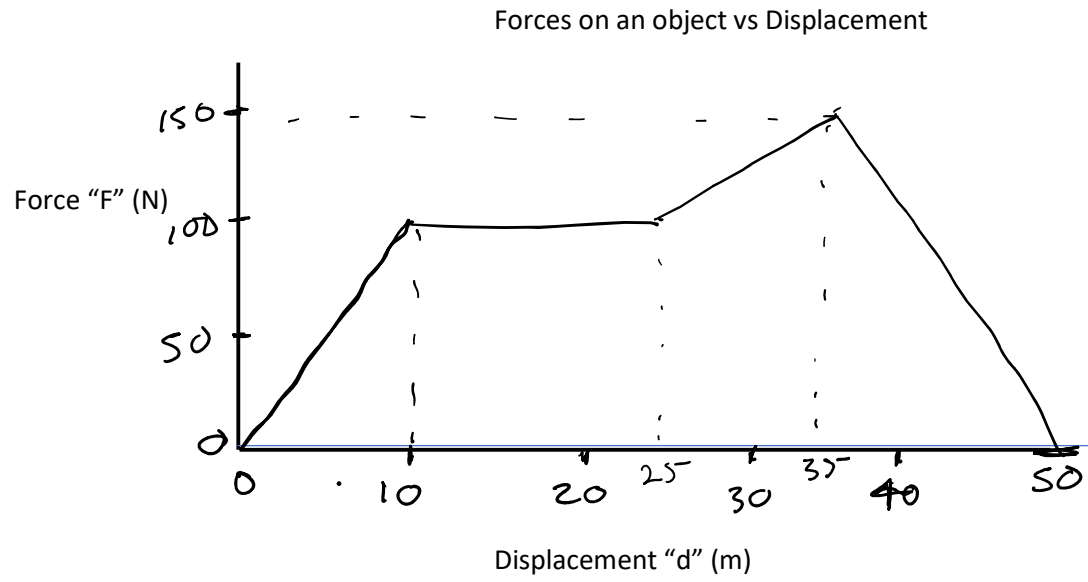
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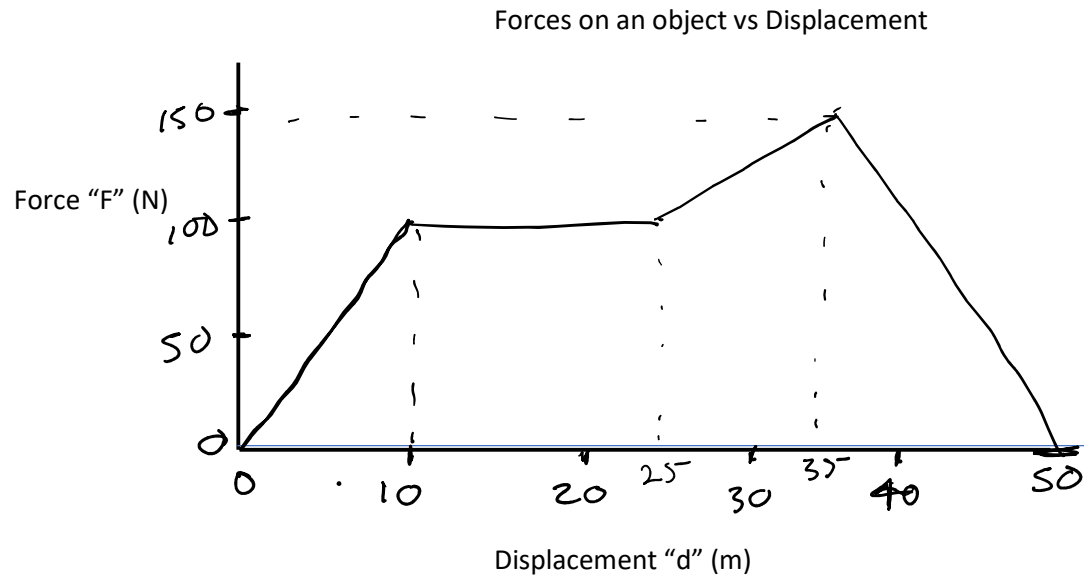
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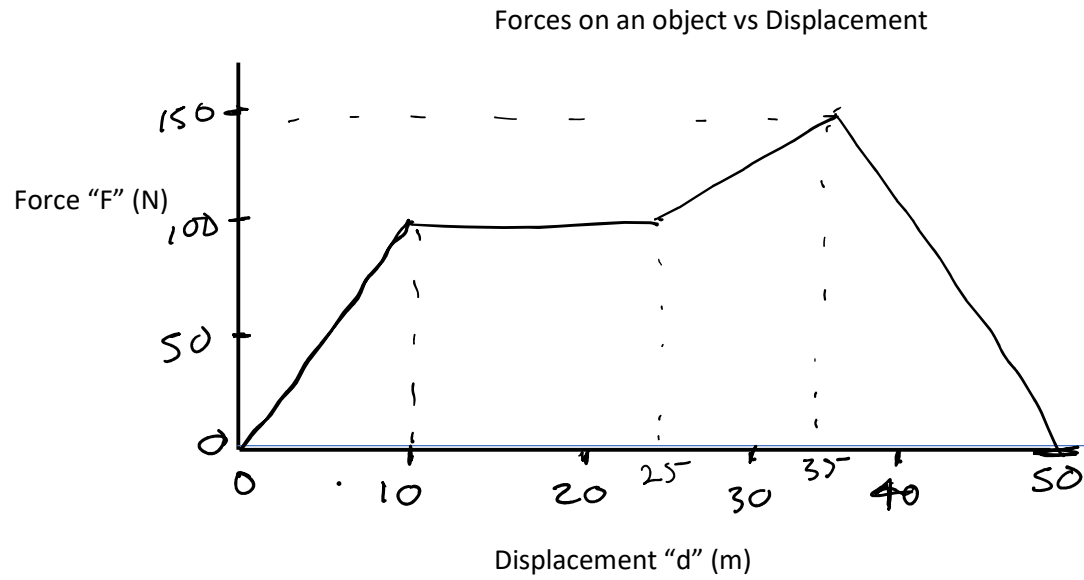
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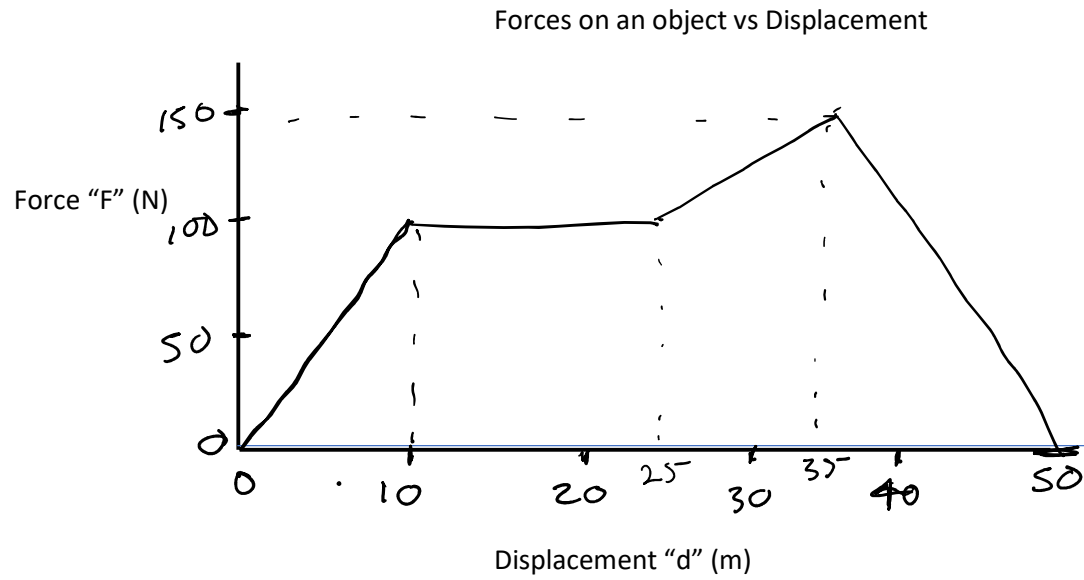
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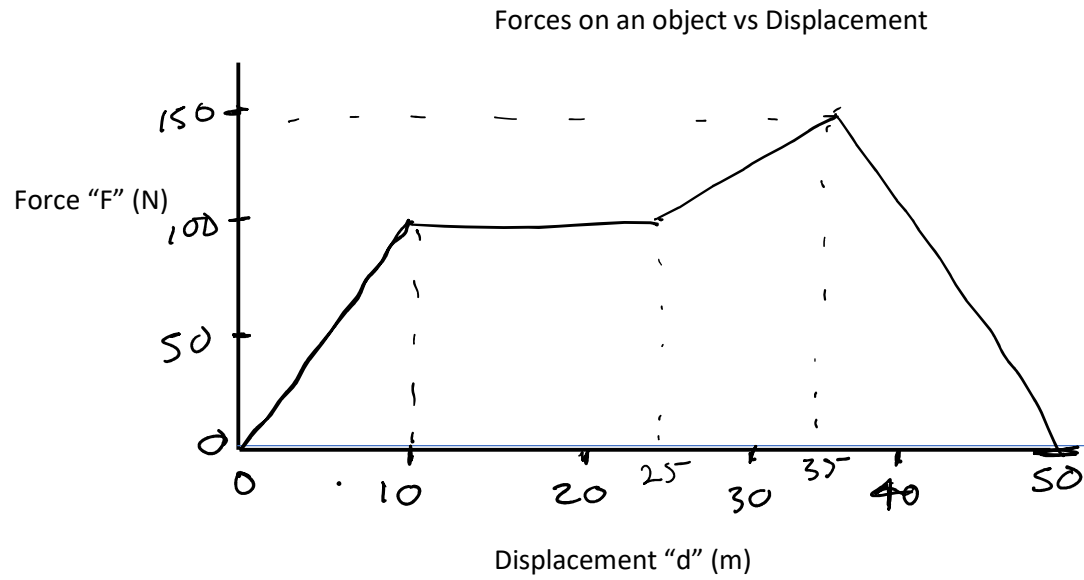
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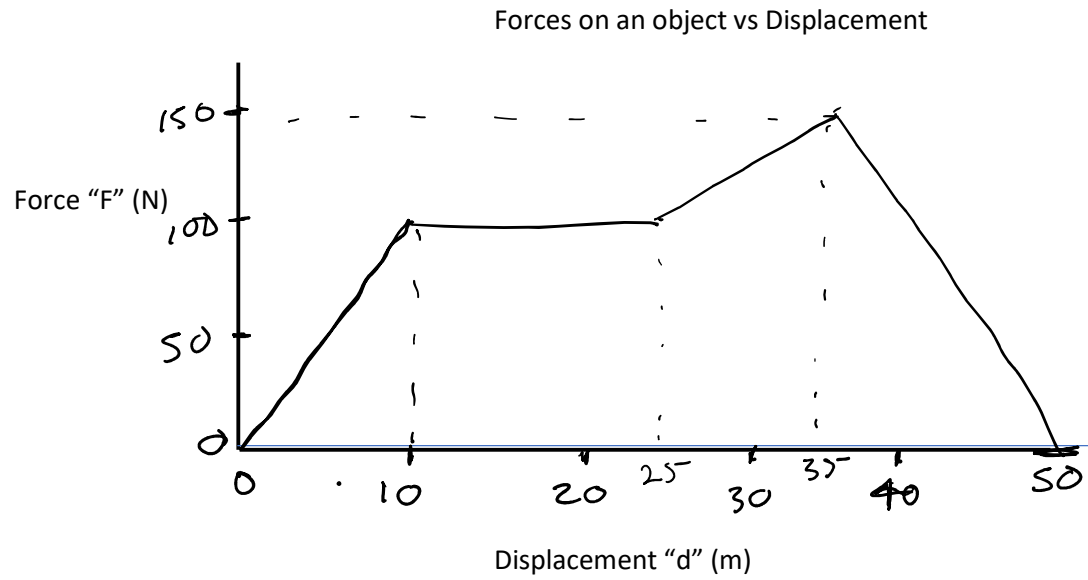
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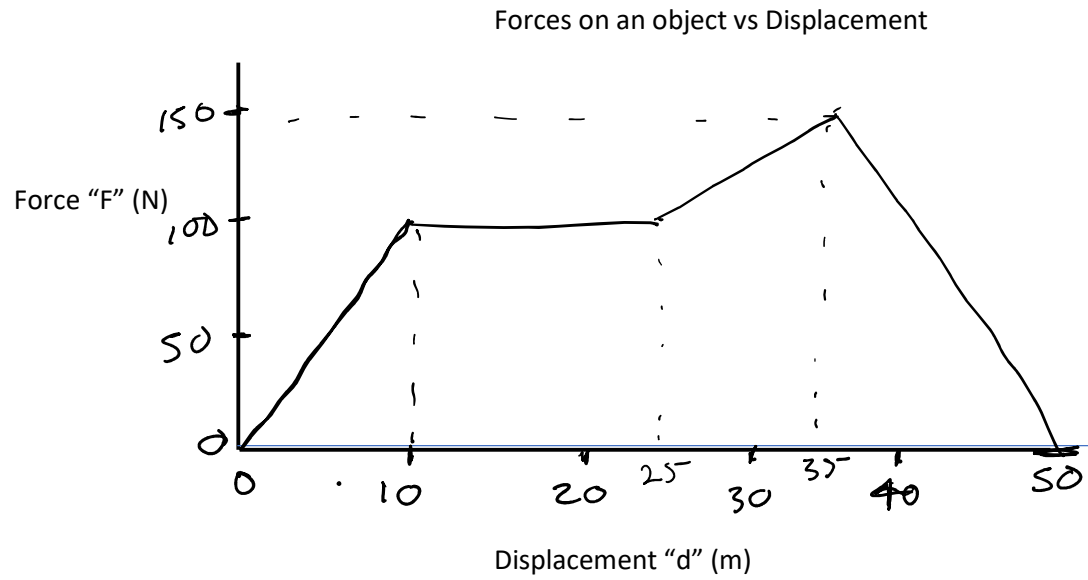
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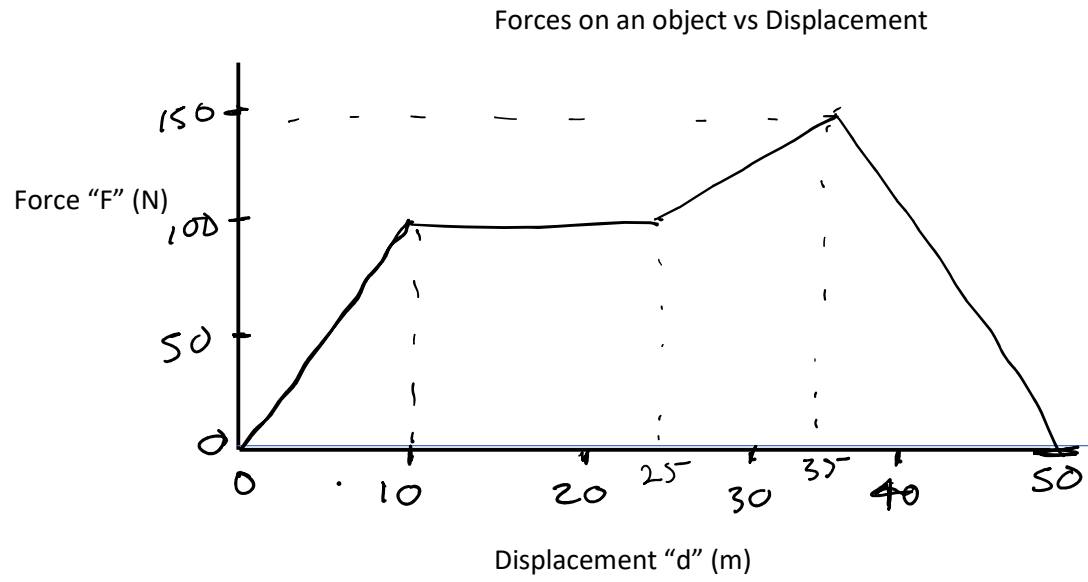
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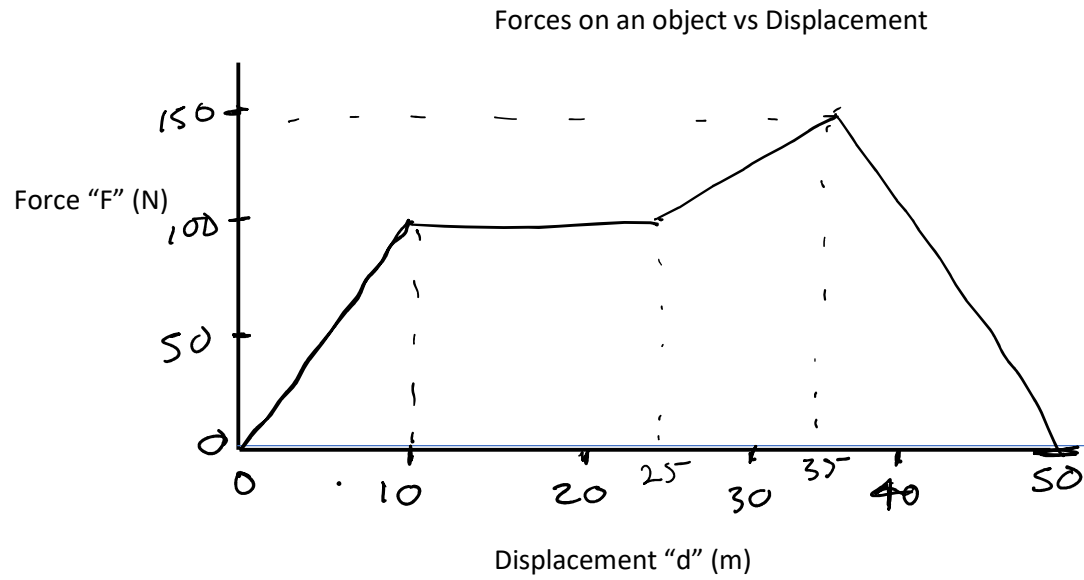
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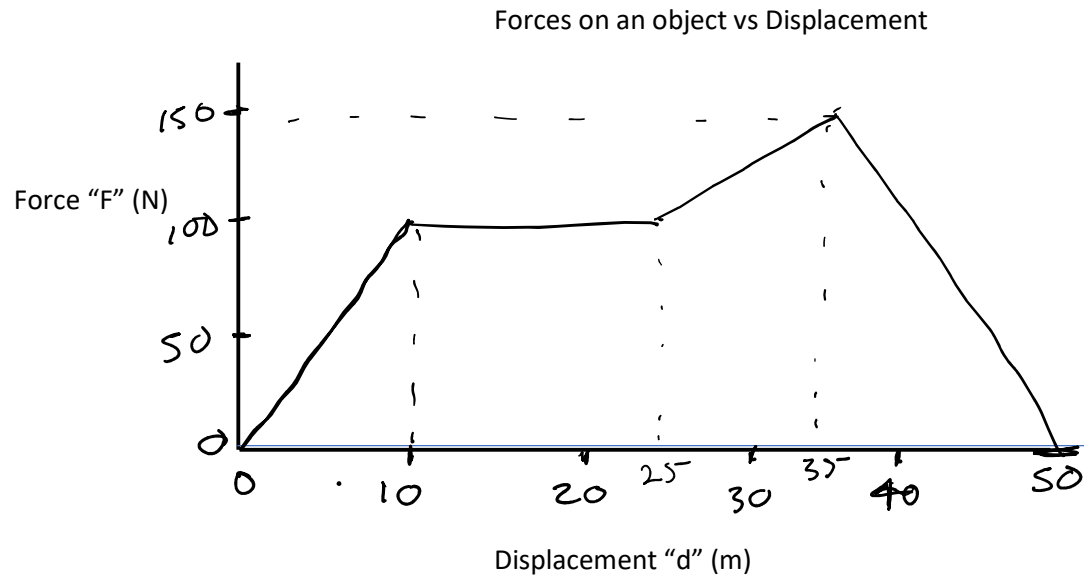
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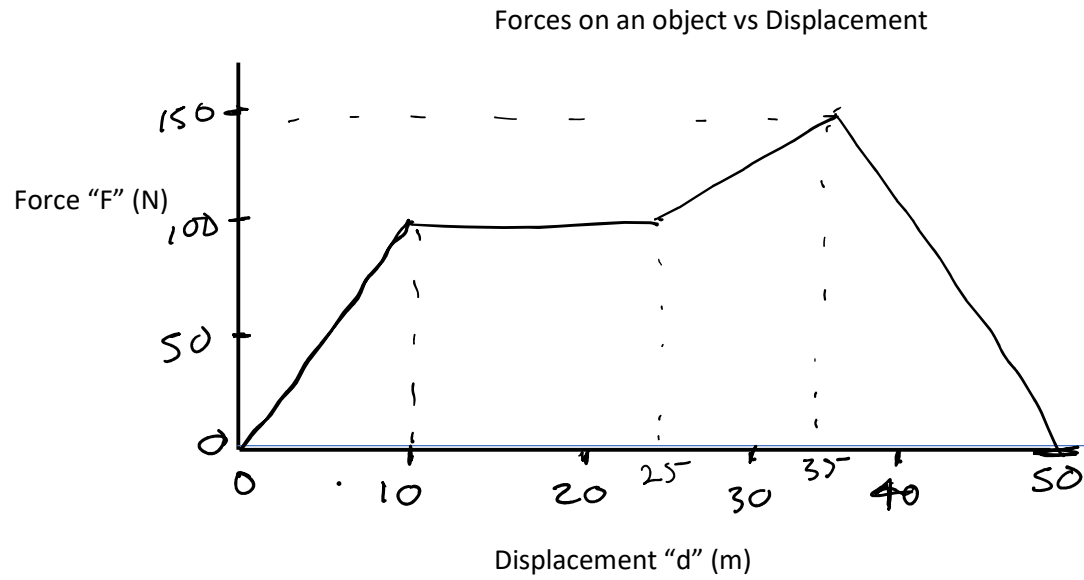
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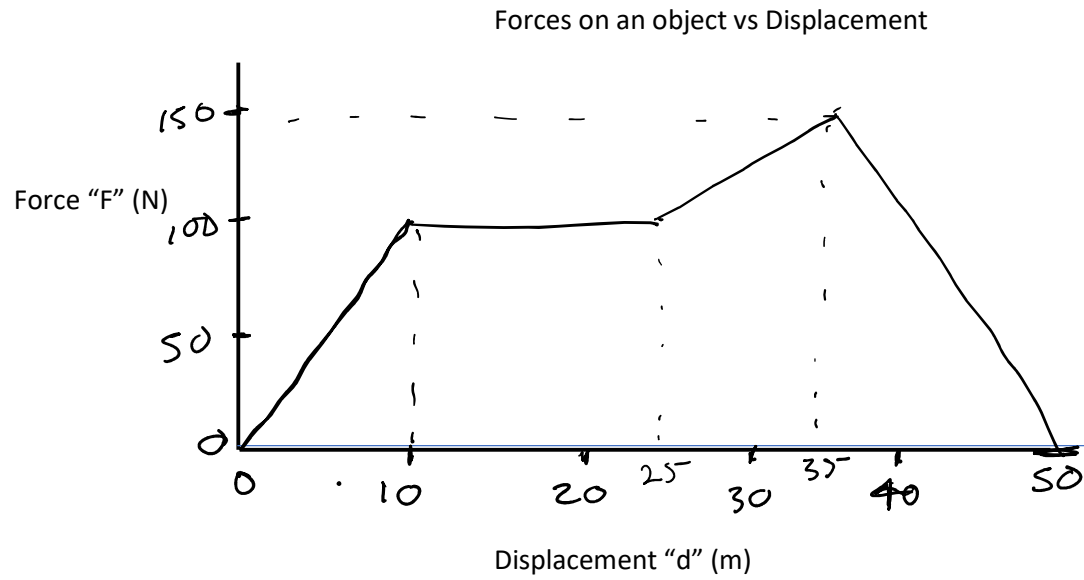
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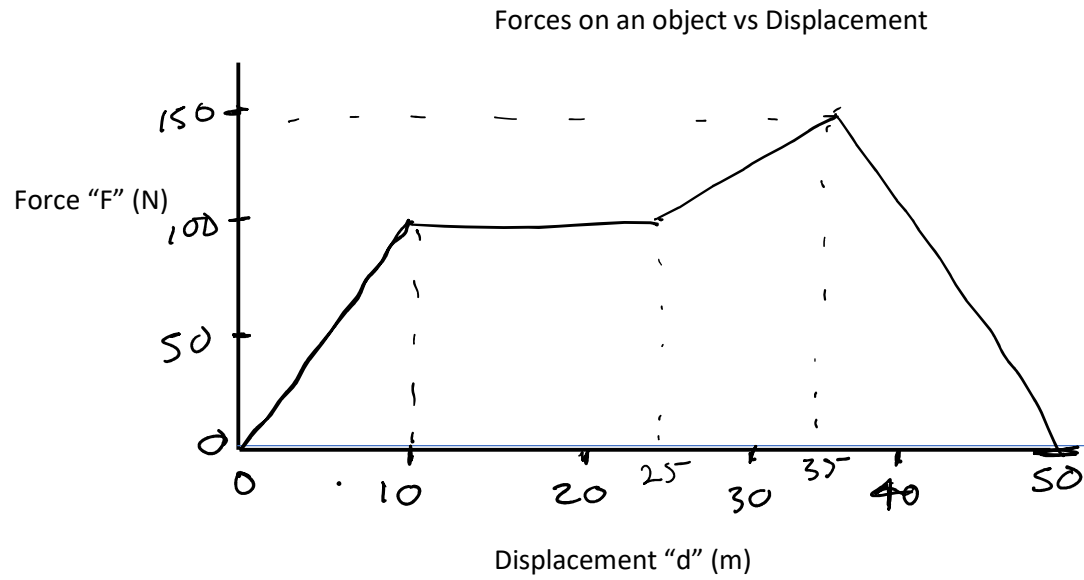
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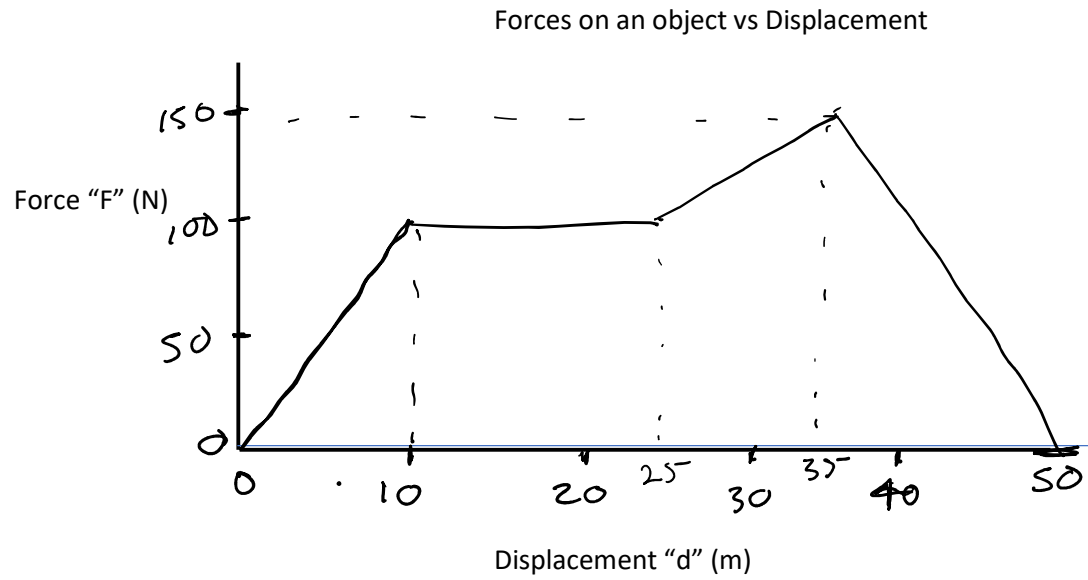
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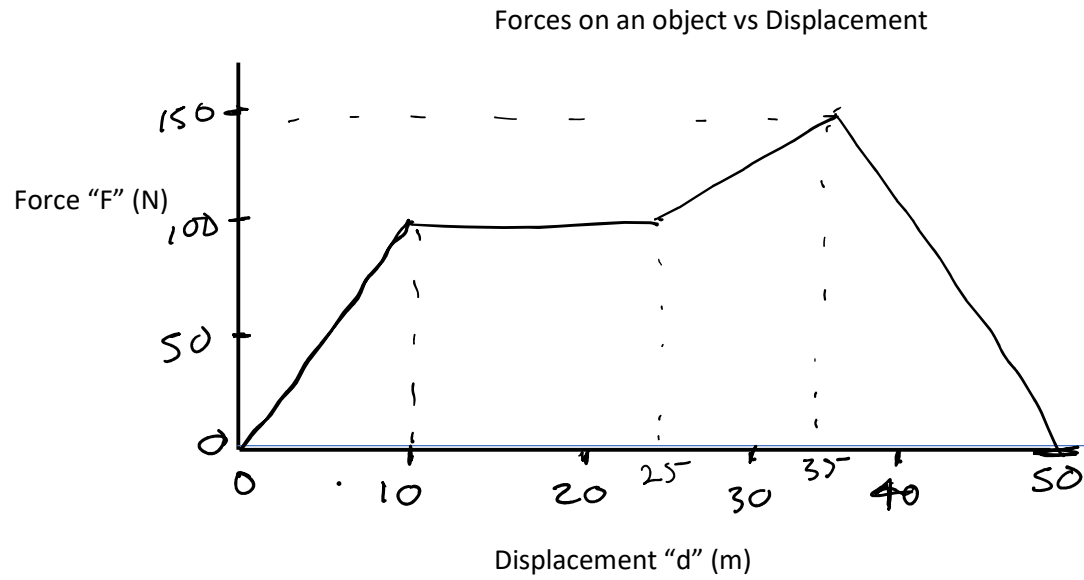
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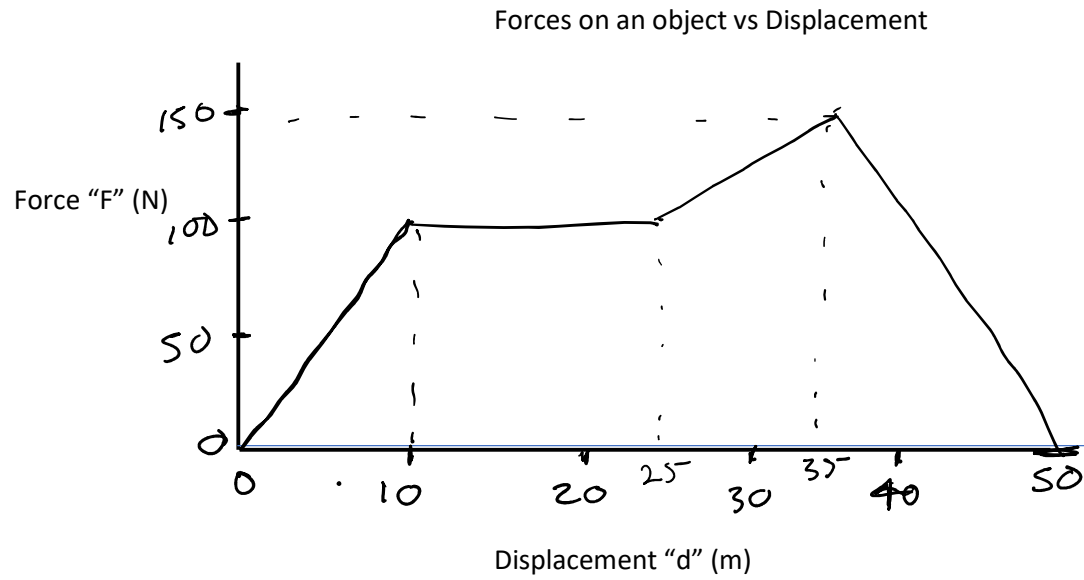
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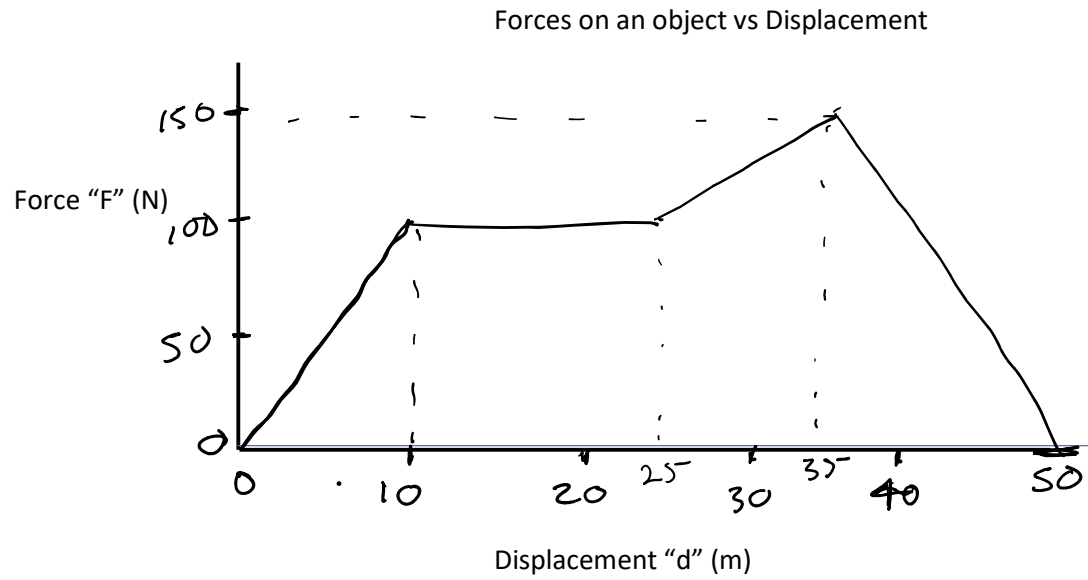
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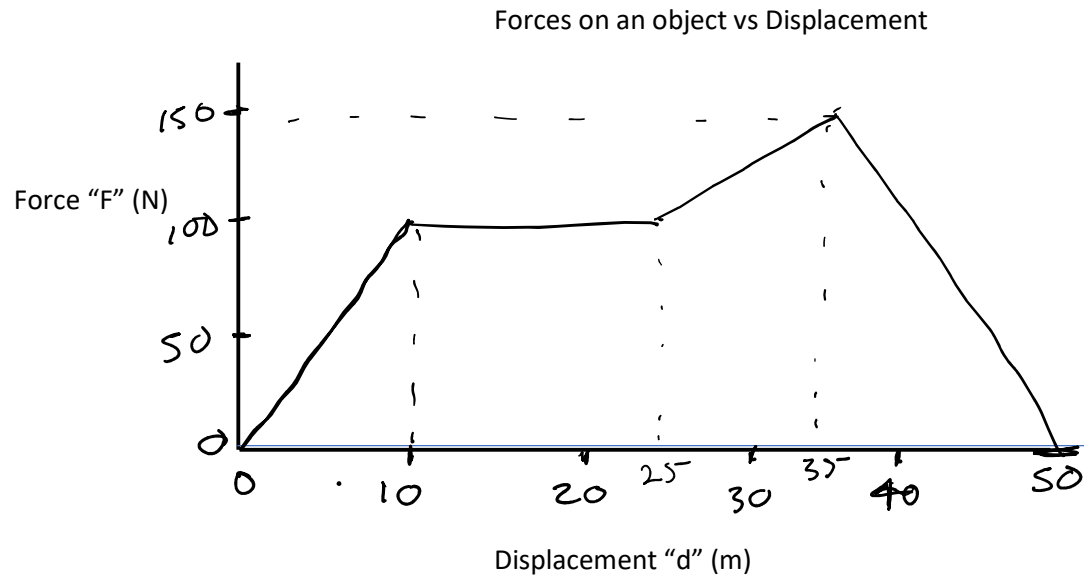
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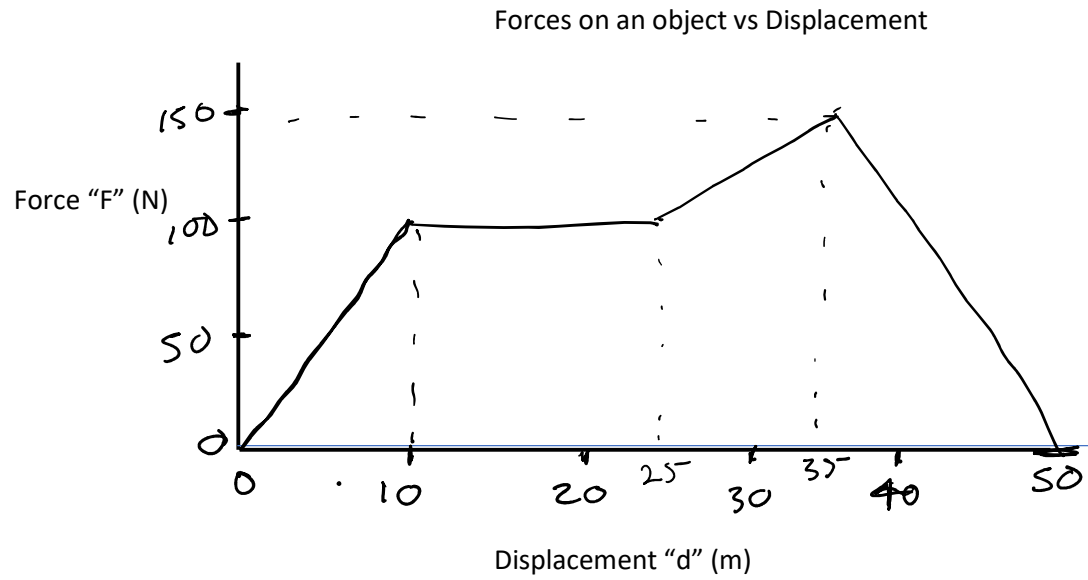
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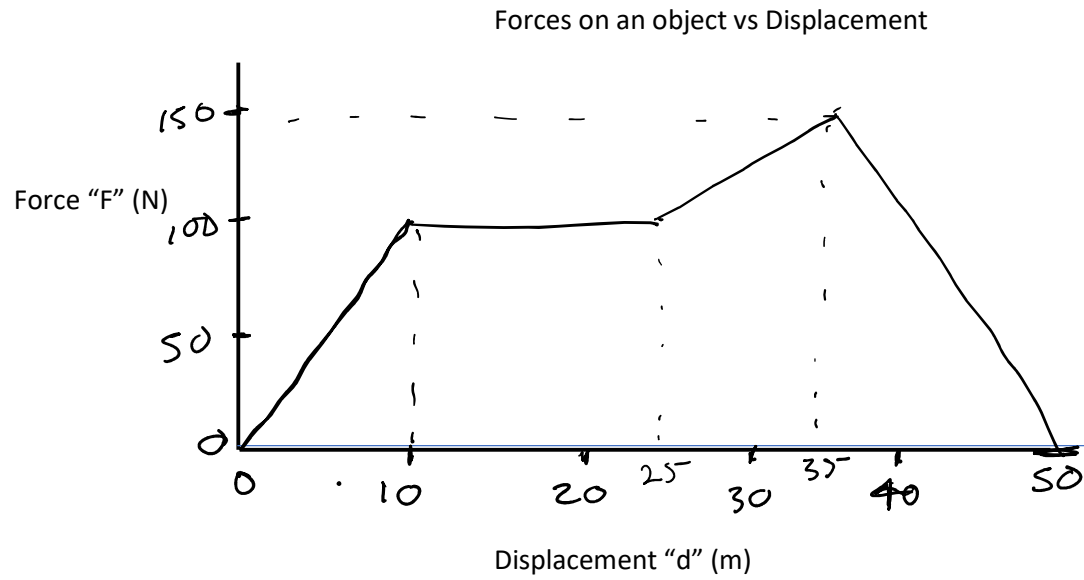
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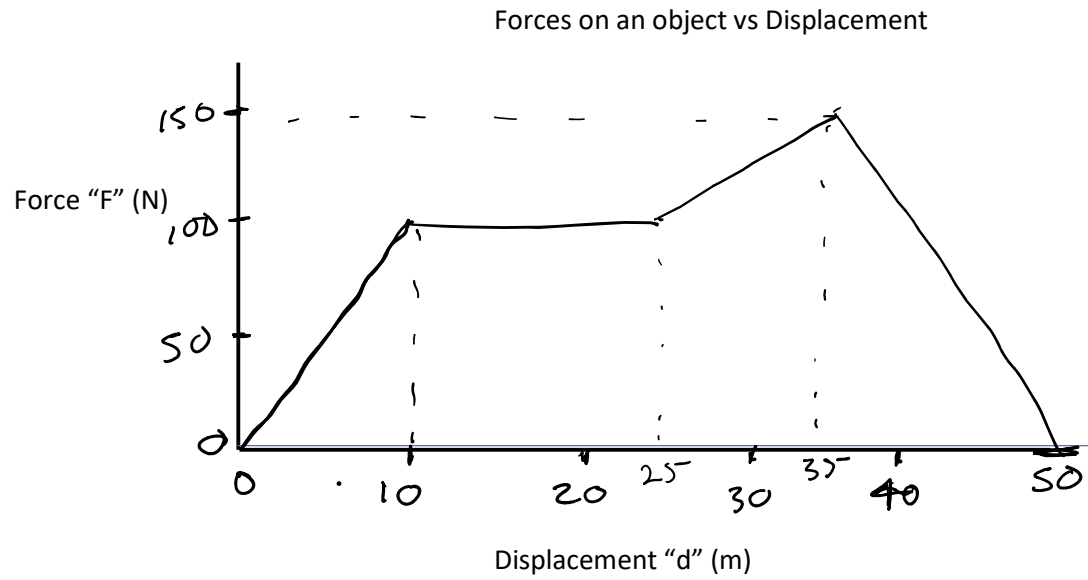
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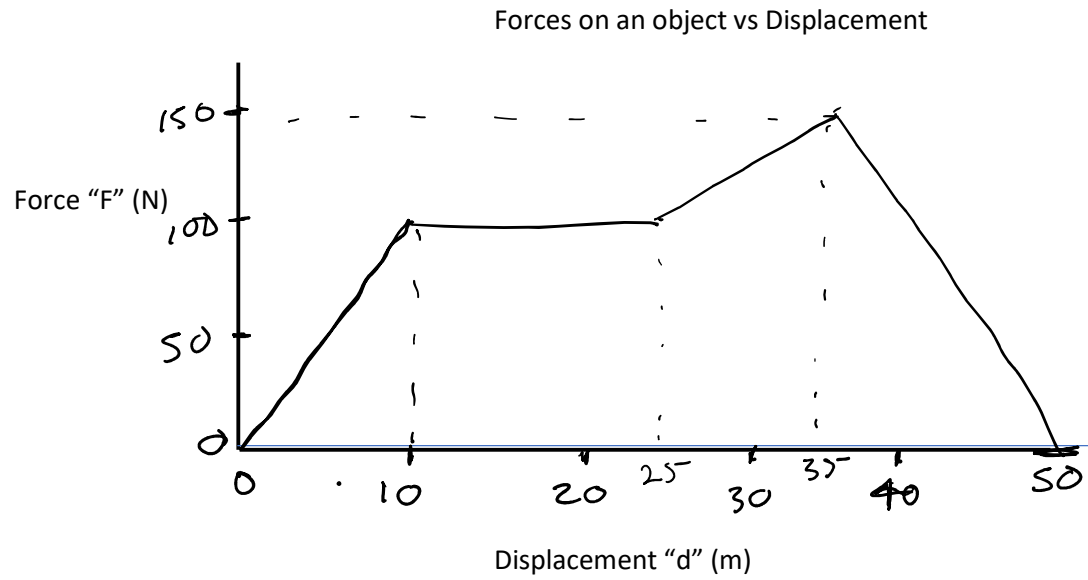
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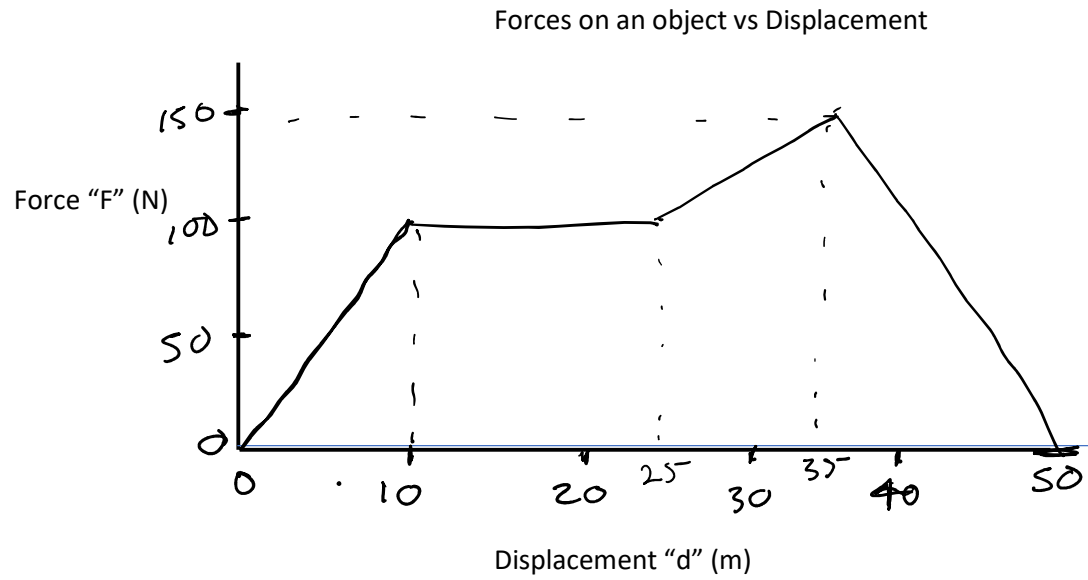
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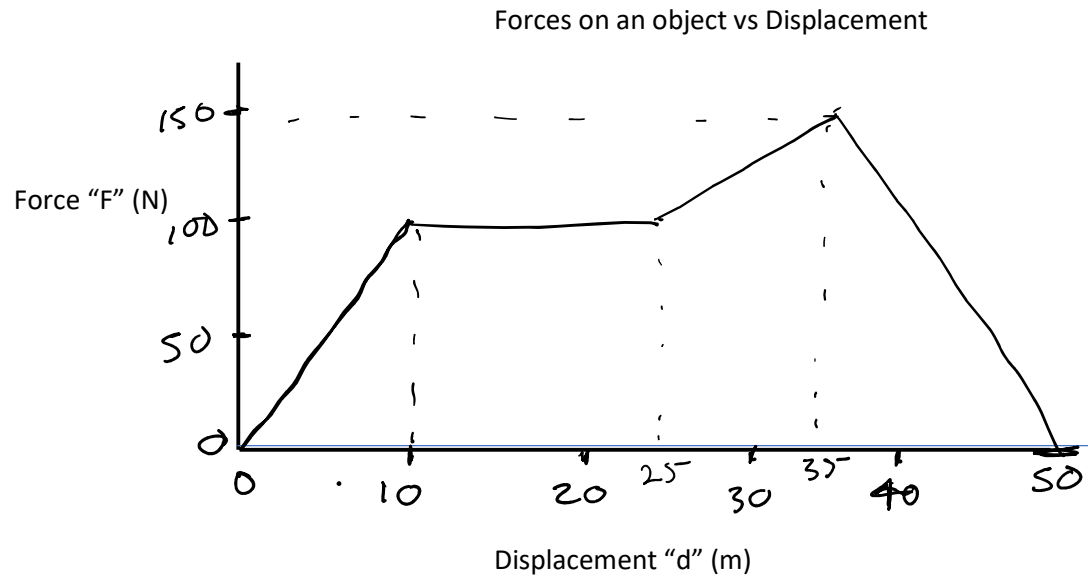
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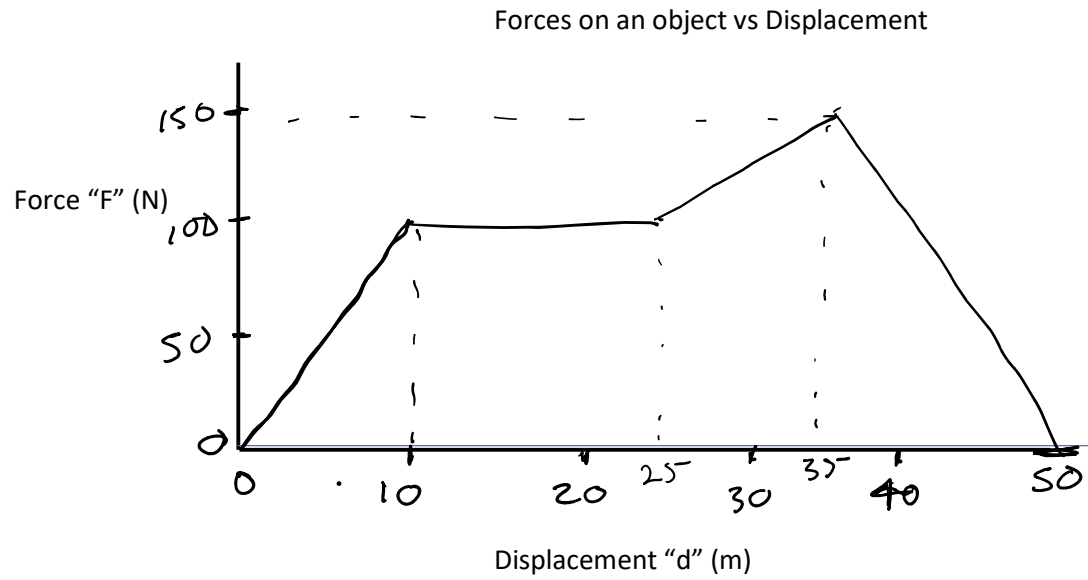
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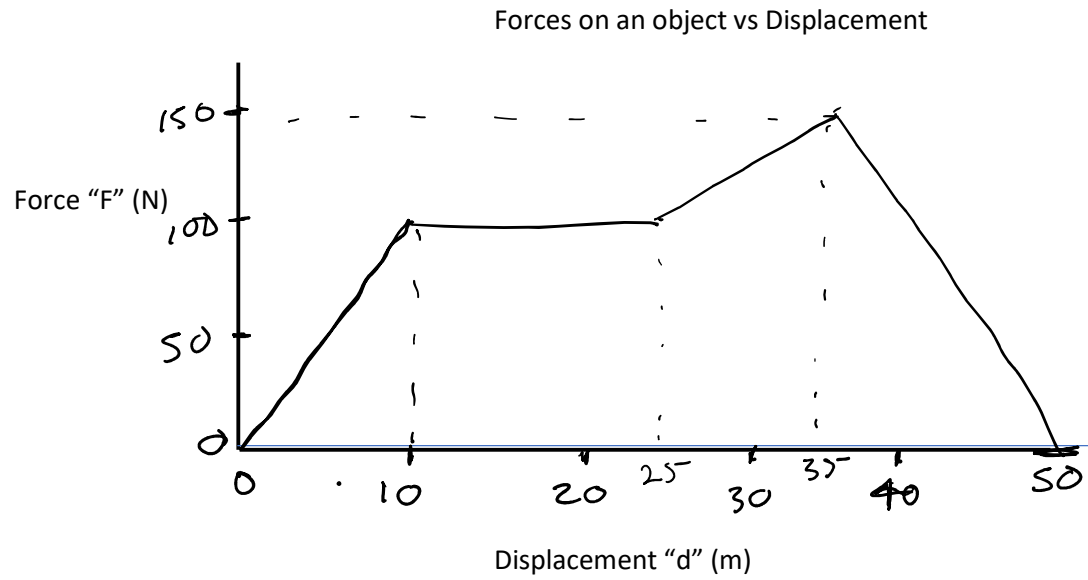
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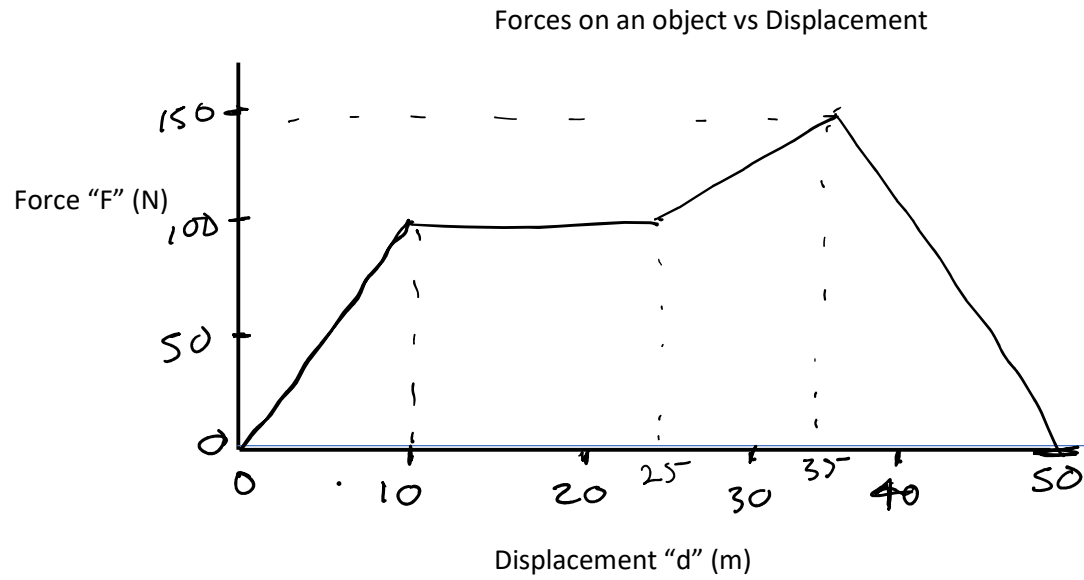
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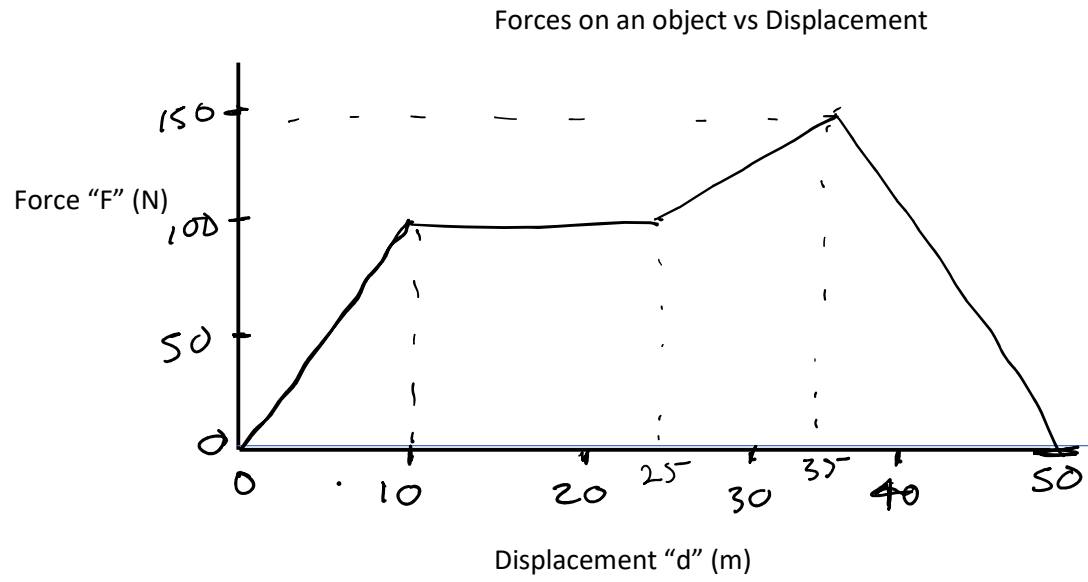
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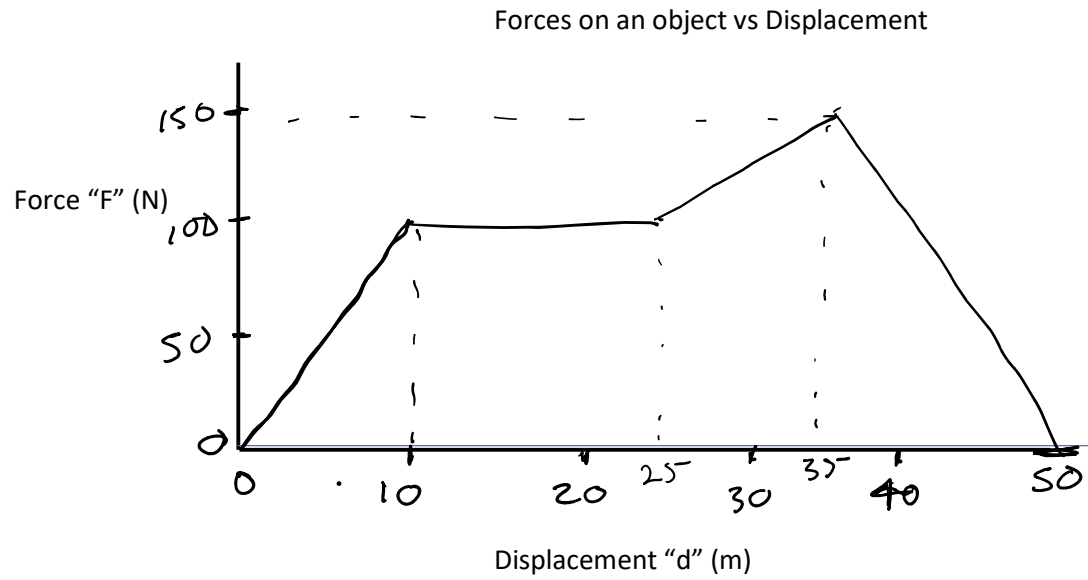
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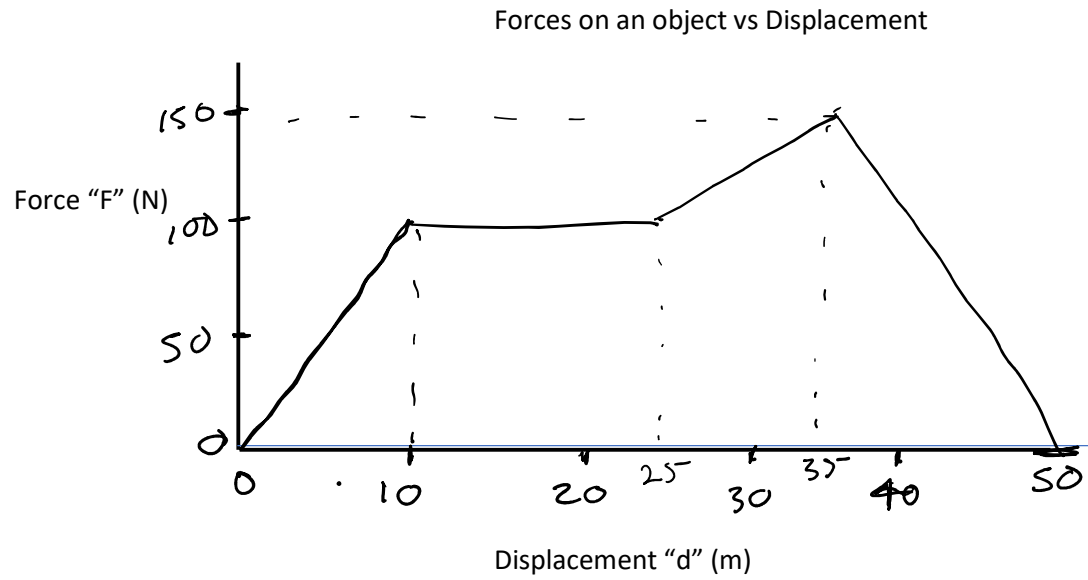
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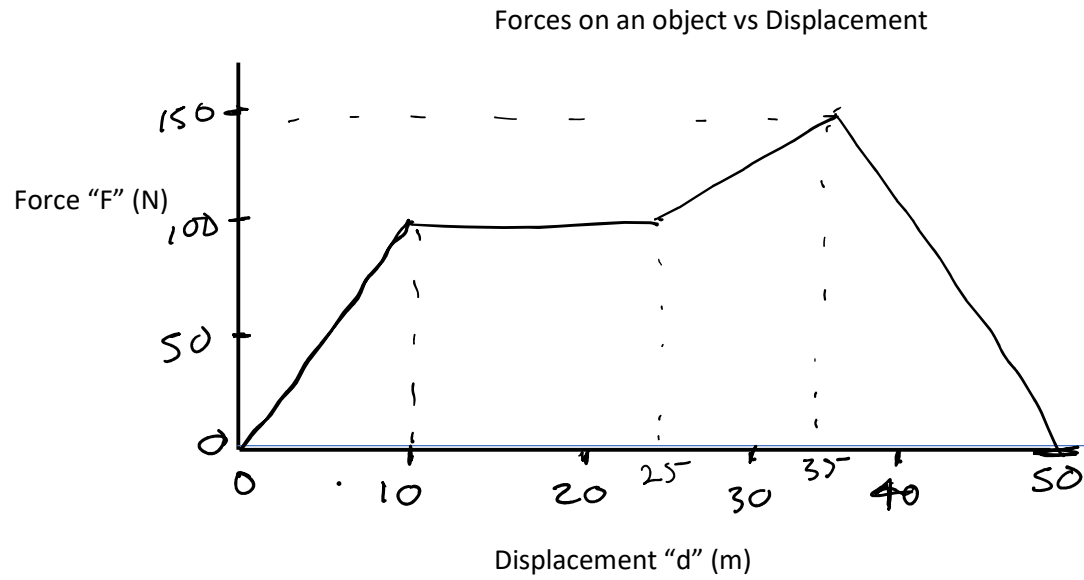
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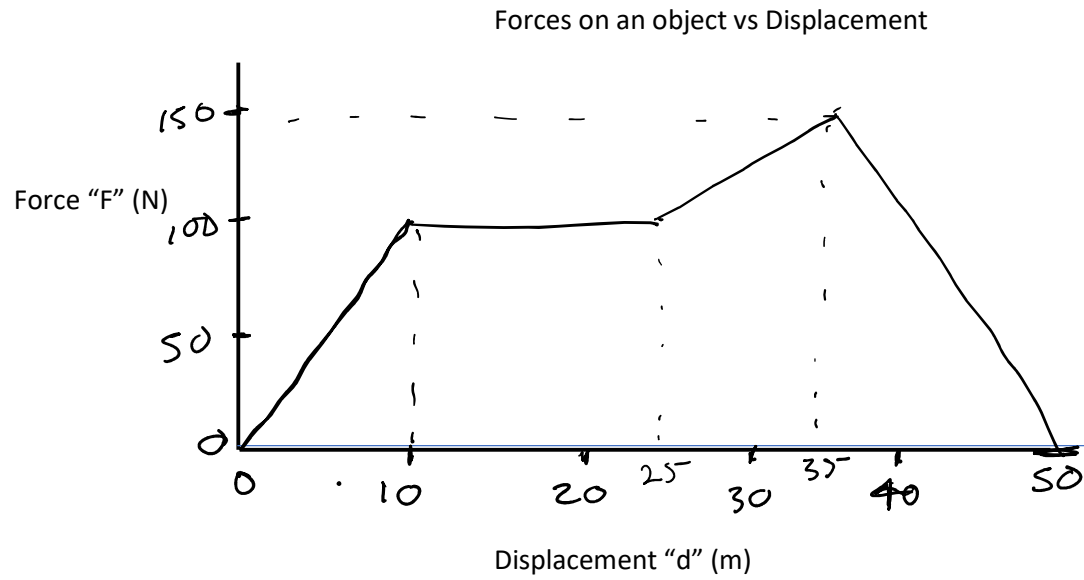
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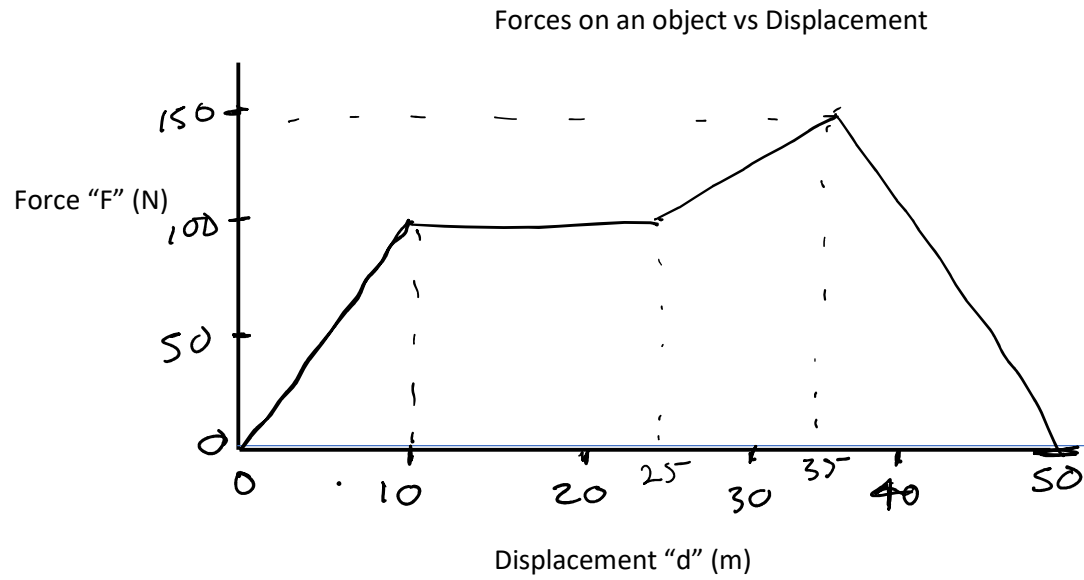
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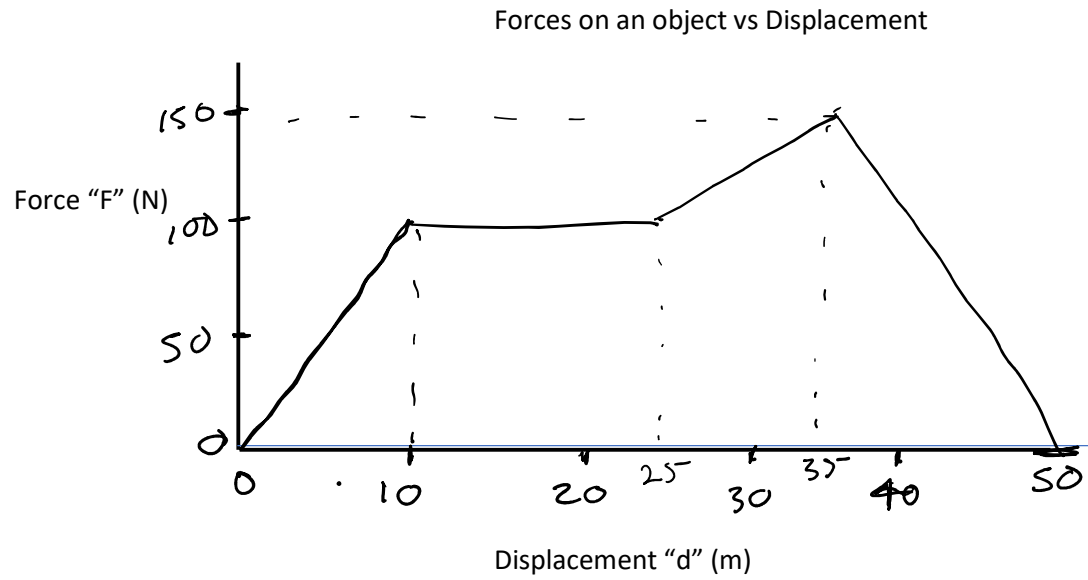
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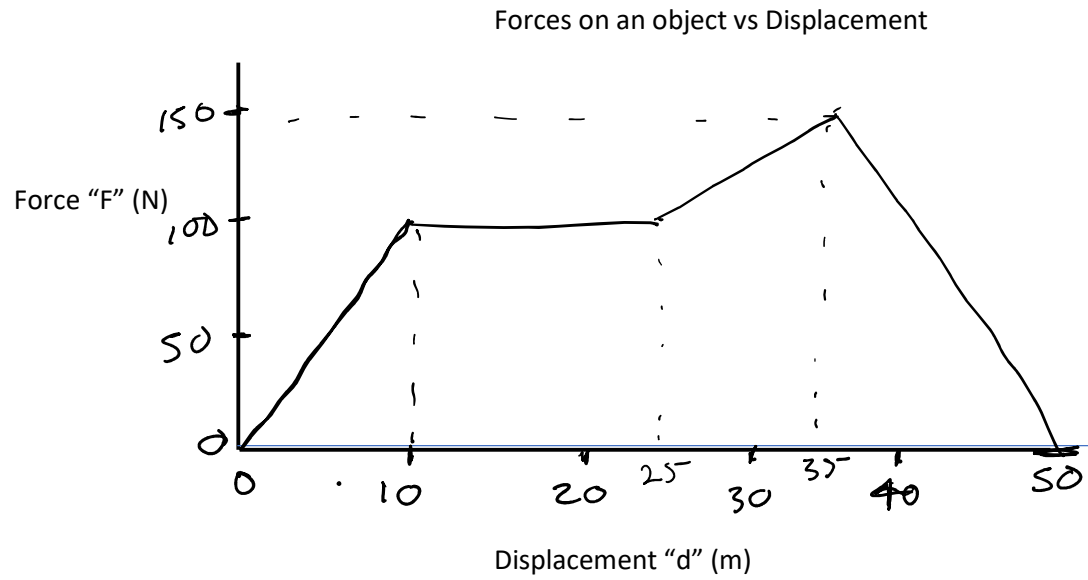
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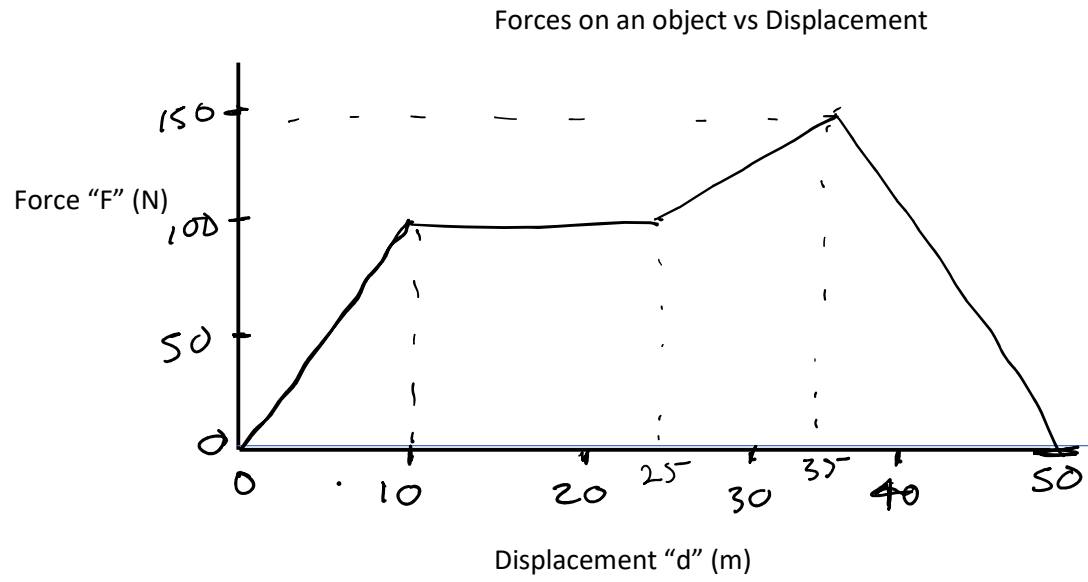
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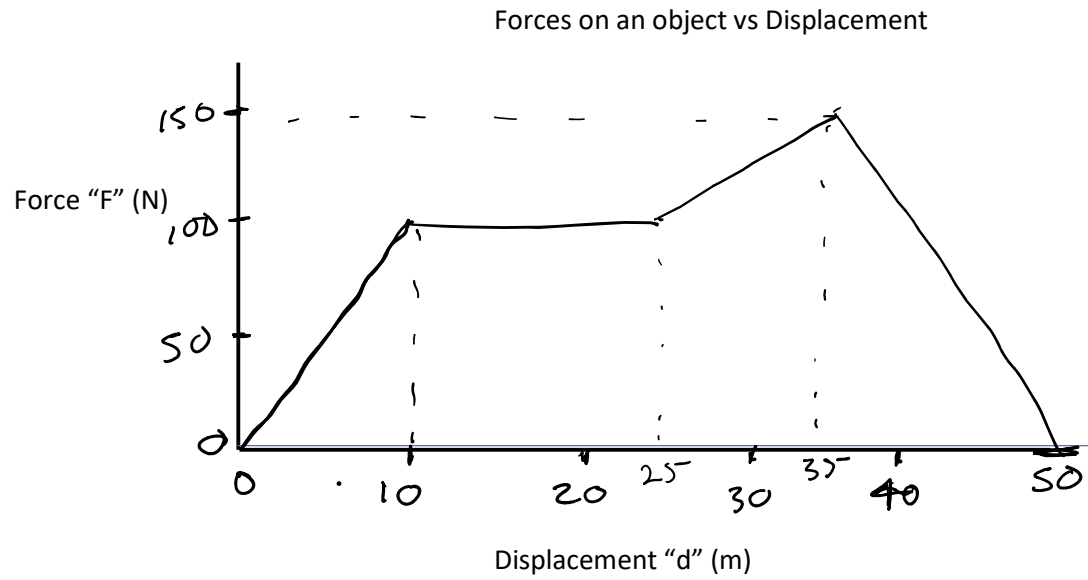
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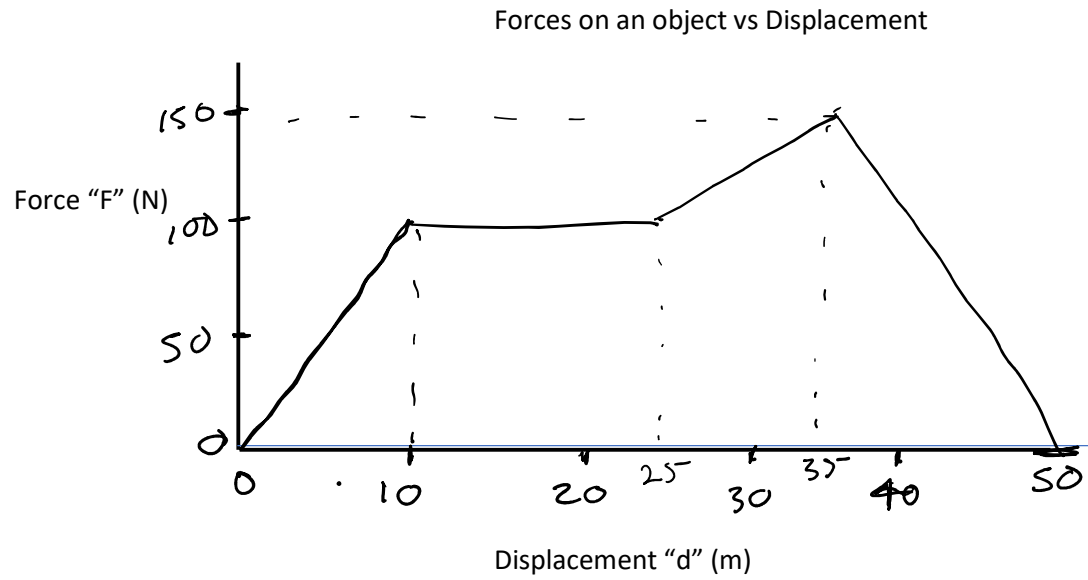
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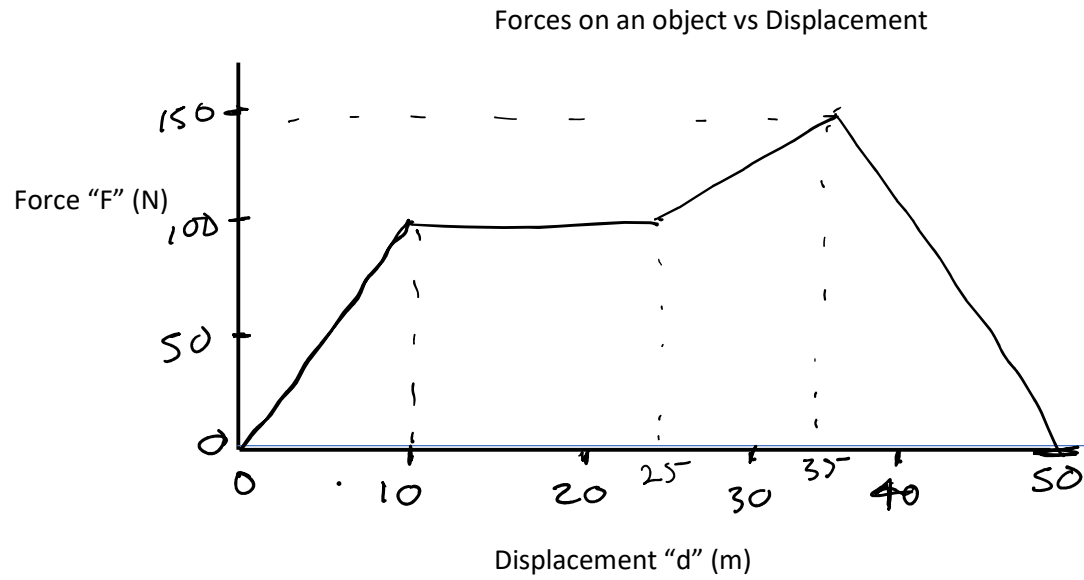
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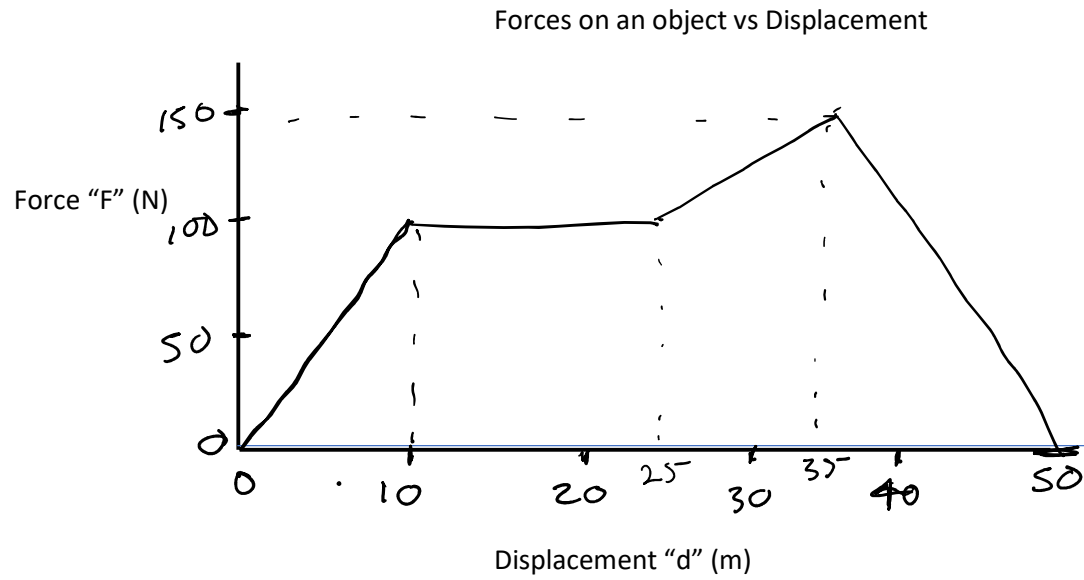
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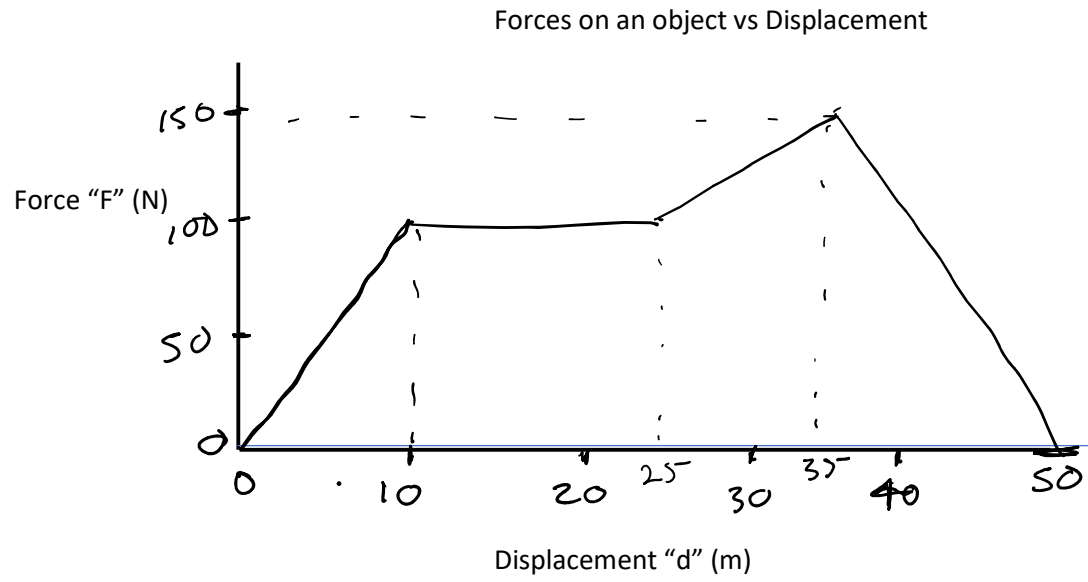
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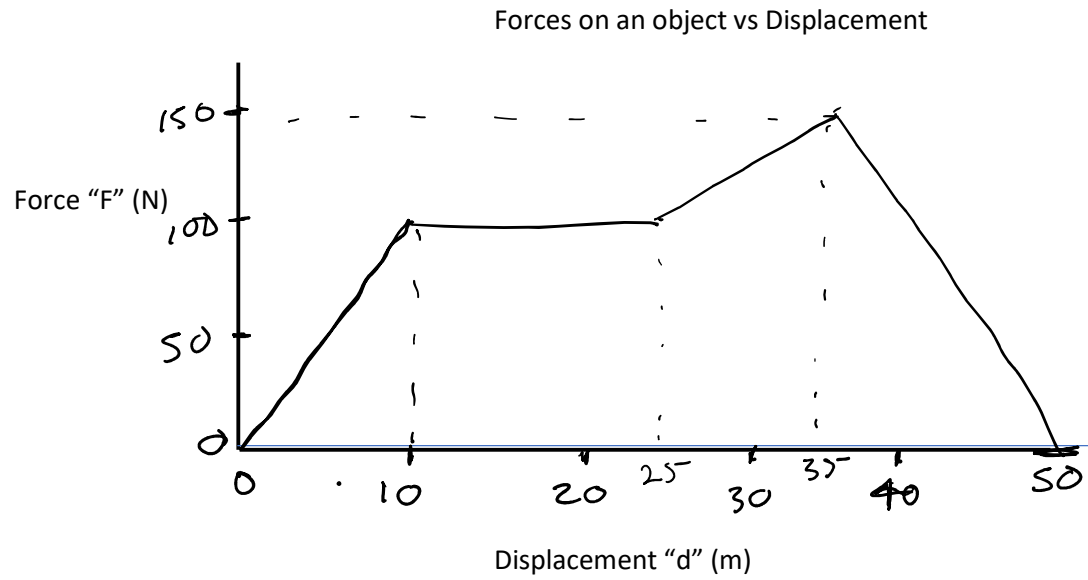
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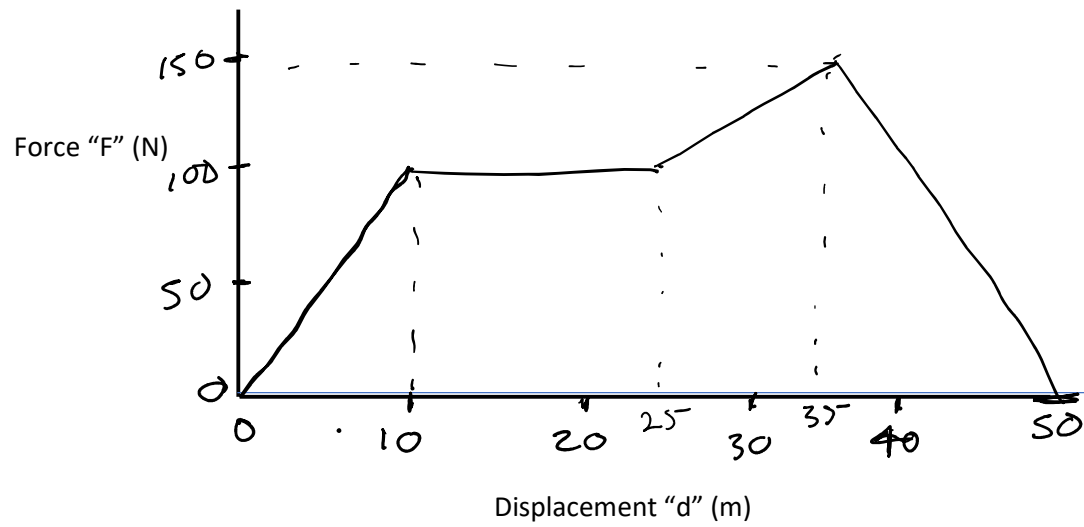
a. Draw the fbd for the box

b. Determine (calculate) the work done on the box by **each force**

c. Determine the **net work** done on the box

3) This graph represents the force on an object vs its displacement. Calculate the **net work** done on the object.

Forces on an object vs Displacement



Mon April 15, 2024

Physics 11 Warm-up: Energy Transformations and Work = Fd

1) Write the energy transformation equation for each of the following:

a. A battery powered drone starts on the ground, then the drone operator has it fly above a tree:

_____ → _____ → _____ + (waste energy) _____

b. Gas fireplace: _____ → _____ + _____

c. Windmill: _____ → _____ → _____

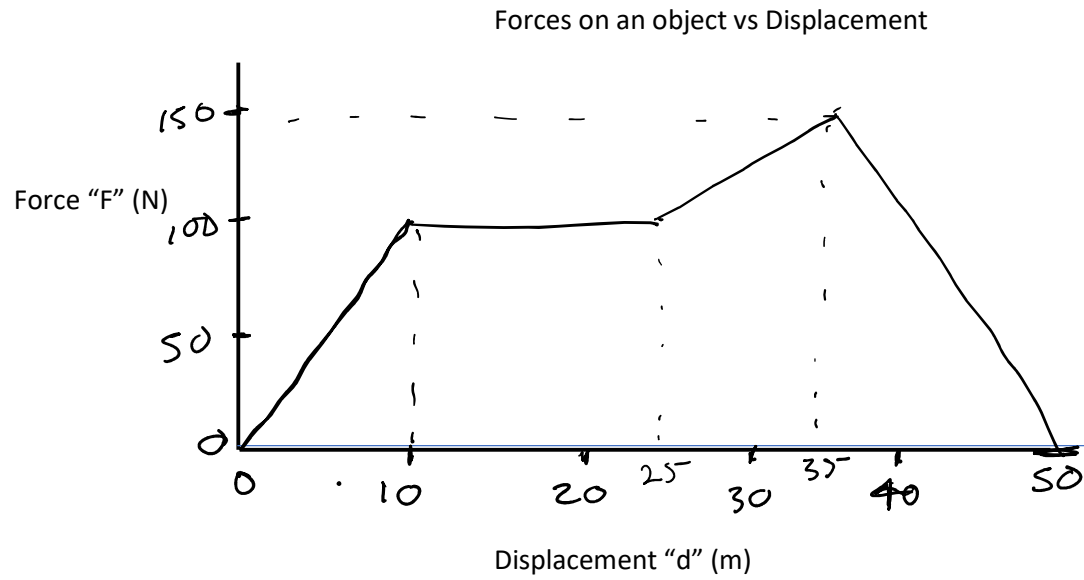
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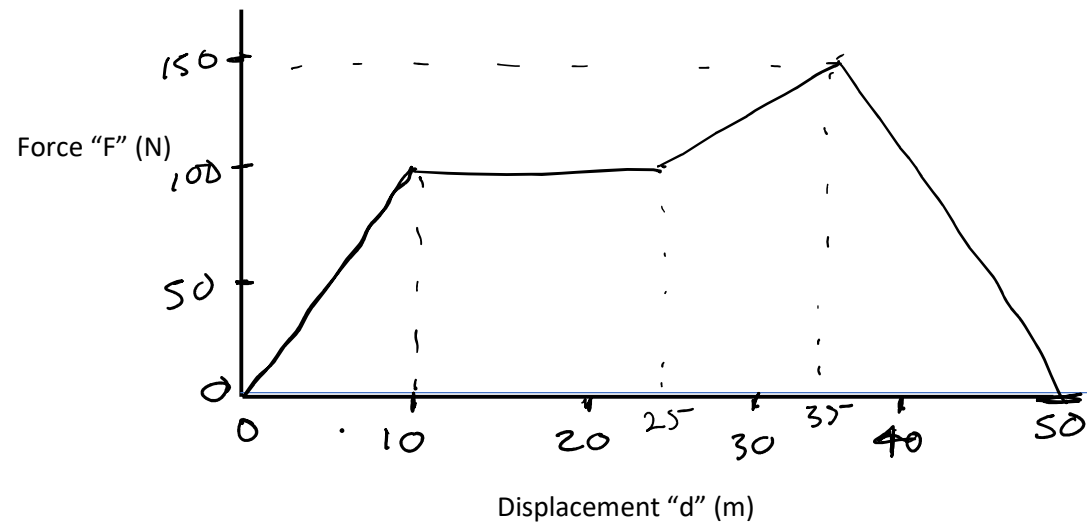
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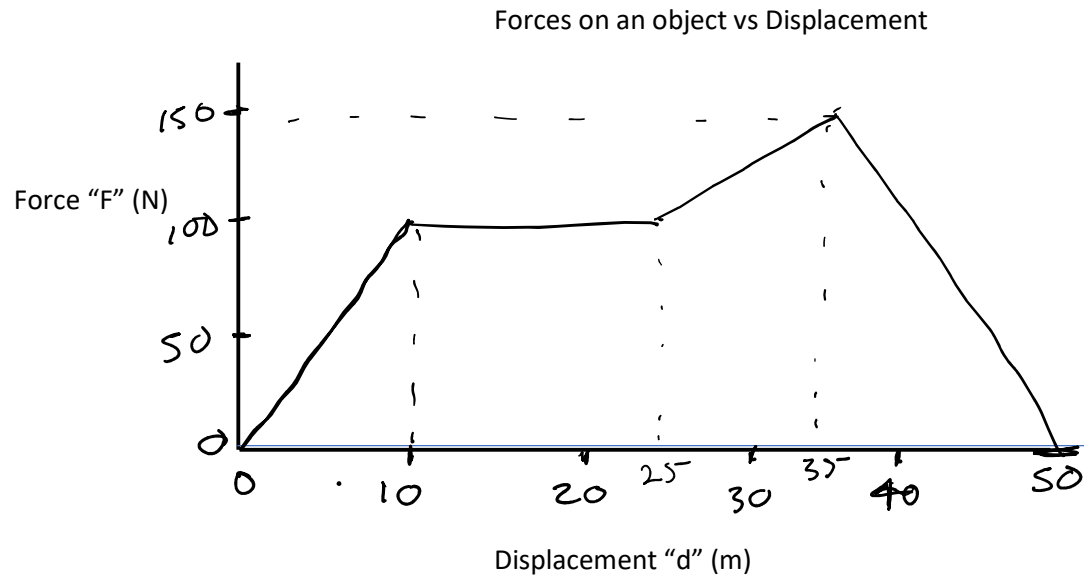
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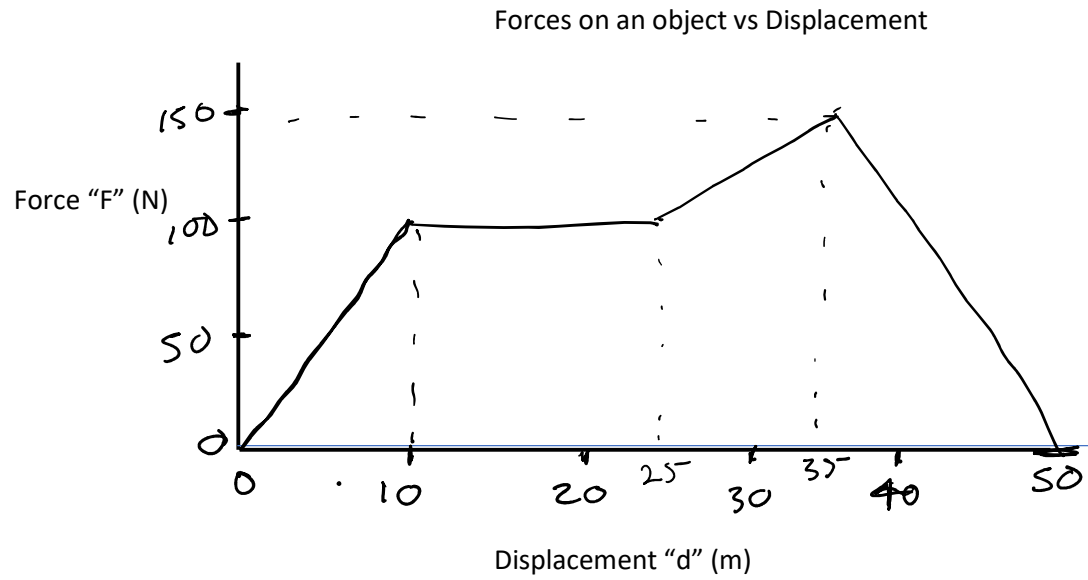
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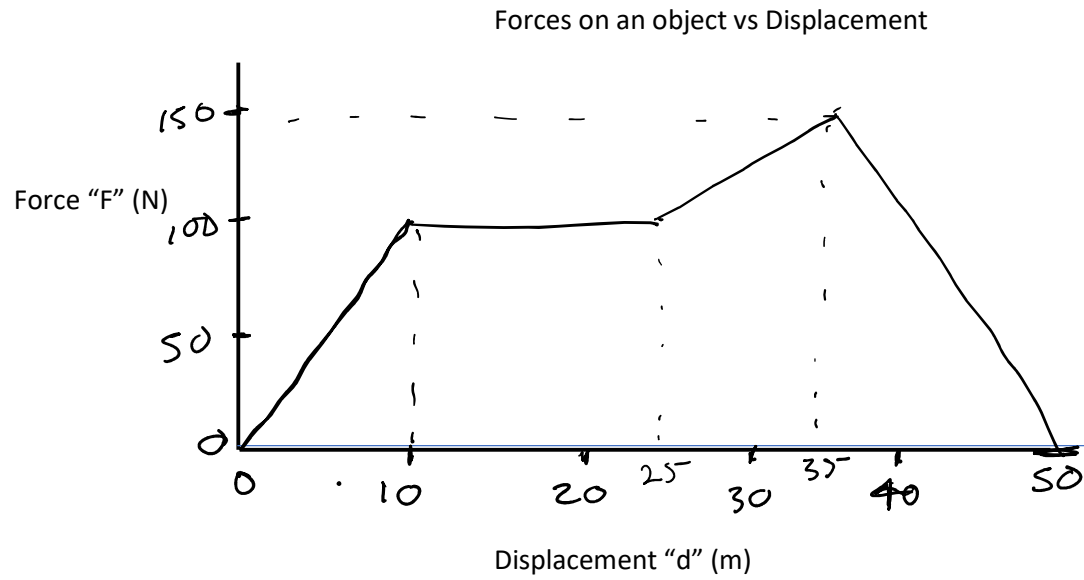
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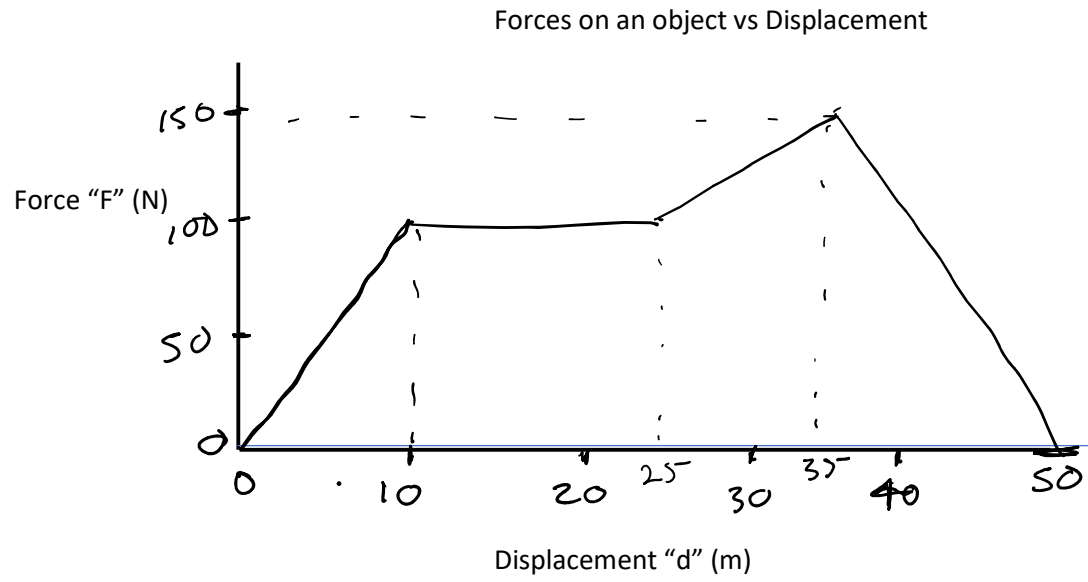
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