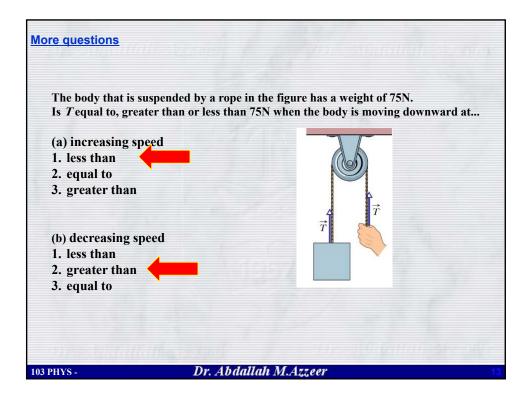
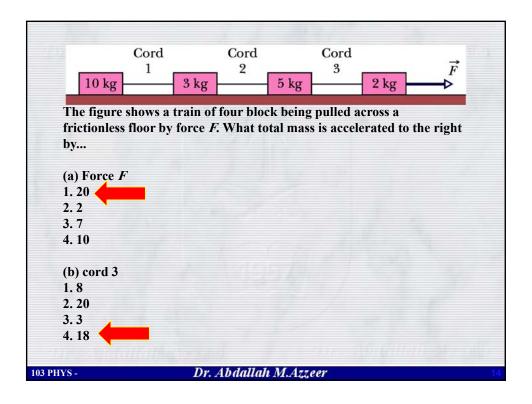
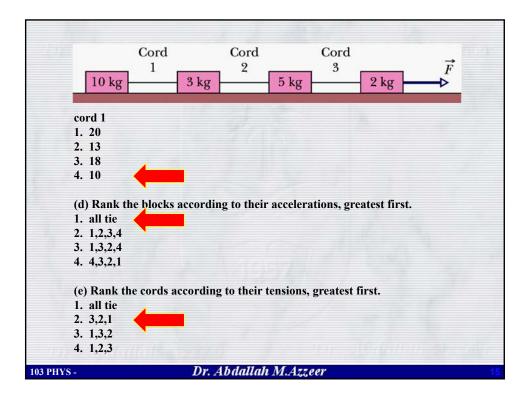
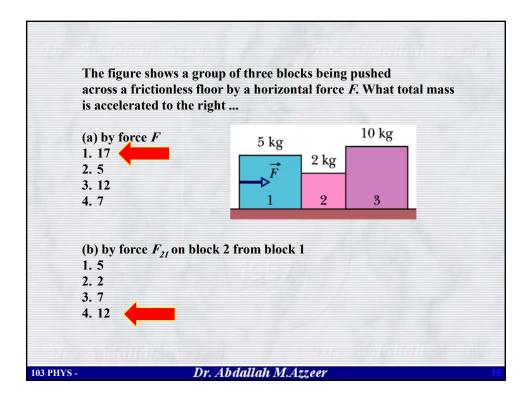


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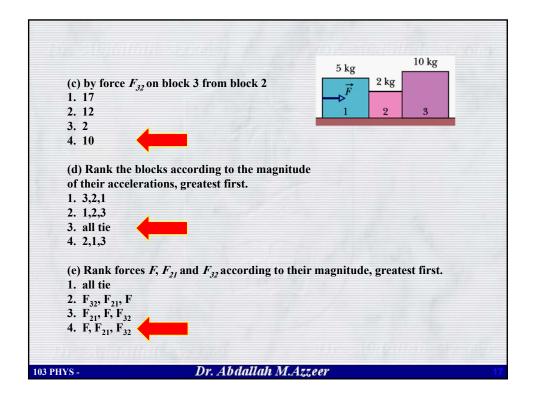


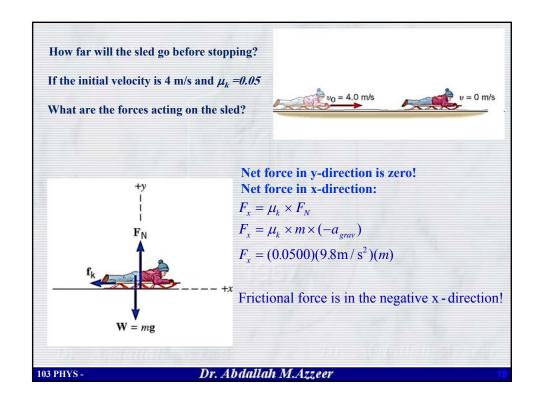






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$$F_{x} = \mu_{k} \times F_{N}$$

$$F_{x} = \mu_{k} \times m \times (-a_{grav})$$

$$F_{x} = (0.0500)(9.8 \text{ m/s}^{2})(m)$$
Frictional force is in the negative x-direction!
$$a_{x} = \frac{F_{x}}{m} = \frac{-(0.0500)(9.8 \text{ m/s}^{2})(m)}{m}$$

$$a_{x} = -0.49 \text{ m/s}^{2}$$

$$v_{x}^{2} = v_{\theta,x}^{2} + 2ax$$

$$x = \frac{v_{x}^{2} - v_{\theta,x}^{2}}{2a} = 16.3 \text{ m}$$
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