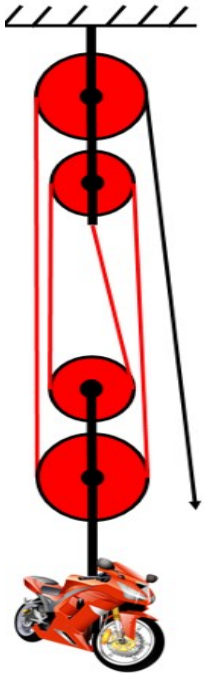


Name: Stefan

Given the pulley in the figure below. $F_e = 156$ lbs, which lifts a motorcycle, $F_r = 480$ lbs, What is the

(a) IMA (b) AMA (c) Efficiency (precision of 0.1)?



$$IMA = \frac{D_e}{D_r} \text{ or } \# \text{ of strings}$$

$$AMA = \frac{F_r}{F_e}$$

$$EFF = \frac{AMA}{IMA} \times 100$$

$$IMA = 4$$

$$AMA = \frac{480}{156} = 3.1$$

$$EFF = \frac{3.1}{4} = .8$$

Write ONLY answers below this line _____

Set25

a: 4

b: 3.1

c: 77.5