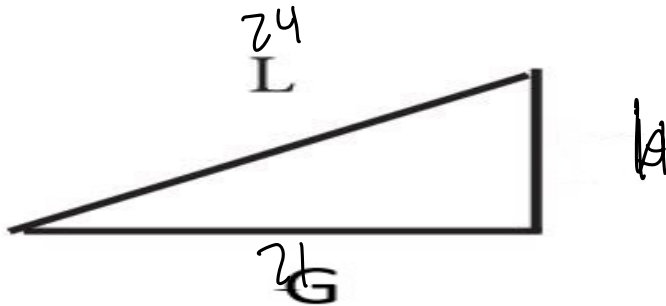


Name: Andrew Chang

Given the inclined plane pictured below, when L (slope length) = 24 feet, G (Ground length of slope) = 21 feet, $F_e = 20$, $F_r = 38$ what is the a: IMA b: AMA c: Efficiency (precision of 0.01)?



a) $21^2 + b^2 = 24^2$
 $b^2 = 24^2 - 21^2$ $b^2 = 135$
 $b = \sqrt{135}$

IMA = $\frac{24}{\sqrt{135}} = 2.1$

b) AMA = $\frac{38}{20} = 1.9$

c) $EH = \frac{1.9}{2.1} \times 100 = 90.5\%$

Write ONLY answers below this line _____

Set53

a: 2.1

b: 1.9

c: 90.5