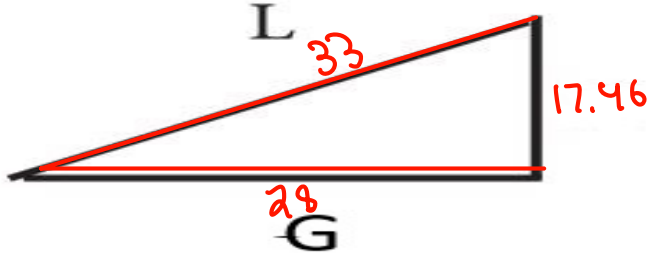


Name: Raj Dhillon

Given the inclined plane pictured below, when L (slope length) = 33 feet, G (Ground length of slope) = 28 feet, $F_e = 24$, $F_r = 43$ what is the a: IMA b: AMA c: Efficiency (precision of 0.01)?



$$a. IMA = \frac{33}{17.46}$$

$$IMA = 1.89$$

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

$$AMA = \frac{43}{24}$$

$$AMA = 1.79$$

$$28^2 + x^2 = 33^2$$

$$784 + x^2 = 1089$$

$$x^2 = 305$$

$$x = 17.46$$

$$c. \left(\frac{1.79}{1.89} \right) 100 = 94.71\%$$

Write ONLY answers below this line _____

Set55

a: 1.89

b: 1.79

c: 94.71