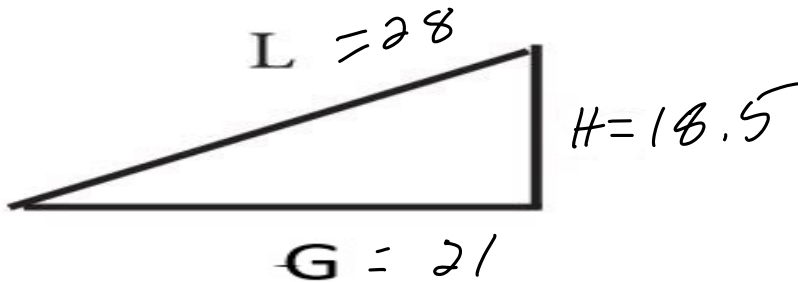Name: Jai Padhya

Given the inclined plane pictured below, when L (slope length) = 28 feet, G (Ground length of slope) = 21 feet, Fe = 50, Fr = 89 what is the a: IMA b: AMA c: Efficiency (precision of 0.01)?

$$L = 28$$

$$H = 18.5$$

$$G = 21$$

$$21^2 + H^2 = 28^2$$

$$H = \sqrt{28^2 - 21^2} = 18.5$$

$$IMA = \frac{D_E}{D_R} = \frac{28}{18.5} = 1.5$$

$$AMA = \frac{F_R}{F_E} = \frac{89}{50} = 1.8$$

$$c. \quad \frac{AMA}{IMA} \cdot 100 = \frac{1.8}{1.5} \cdot 100 = 120\%$$

Write ONLY answers below this line _____

Set59

a: 1.5

b: 1.8

c: 120