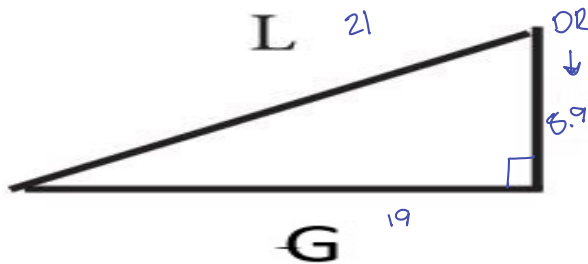Name: Rhyan Bullard

Given the inclined plane pictured below, when L (slope length) = 21 feet, G (Ground length of slope) = 19 feet, Fe = 30, Fr = 56 what is the a: IMA b: AMA c: Efficiency (precision of 0.01)?

L 21   DR $a^2 + b^2 = c^2$
                         $19^2 + b^2 = 21^2$
                 8.9 $b^2 = 21^2 - 19^2$
                         $b^2 = 80$
         19              $b = 8.9$
G

$$IMA = \frac{DE}{DR} = \frac{21}{8.9} = 2.34$$

$$AMA = \frac{FR}{FE} = \frac{56}{30} = 1.87$$

$$Efficiency = \frac{1.87}{2.34}(100) = 79.91$$

Write ONLY answers below this line _____

Set52

a: 2.34 _____

b: 1.87 _____

c: 79.91 _____