

September 27, 2016
 * Exam #1 - Tomorrow

Sep 27-9:03 AM

2.5

$$\#1) m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\frac{1}{3} = \frac{y_2 - (-3)}{(7) - (-2)}$$

$$\frac{1}{3} = \frac{y_2 - 3}{7 + 2}$$

$$9 \left(\frac{1}{3} = \frac{y_2 - 3}{9} \right) \text{ for } y_2$$

$$3 = y_2 - 3$$

$$6 = y_2$$

$$\frac{1}{3} = \frac{6 - 3}{9}$$

$$\frac{1}{3} = \frac{3}{9}$$

$$\frac{1}{3} = \frac{1}{3} \checkmark$$

Sep 27-9:19 AM

$$E = mc^2 \text{ ; for } m$$

$$\frac{E}{c^2} = \frac{mc^2}{c^2}$$

$$m = \frac{E}{c^2}$$

Sep 27-9:25 AM

#17)

$$3 \left(V = \frac{1}{3} Ah \right) \text{ ; for } A$$

$$\frac{3V}{h} = \frac{Ah}{h} \quad \text{cancel}$$

$$\frac{3V}{h} = A \quad \text{m.f.}$$

Sep 27-9:28 AM

#2)

$$V = \frac{1}{3} \pi r^2 h$$

$$47.1 = \frac{(3.14)(3)^2}{3} h$$

$$47.1 = \frac{(3.14)(\cancel{3})}{\cancel{3}_1} h$$

$$\frac{47.1}{9.42} = \frac{9.42}{9.42} h$$

$$\frac{47.1}{9.42} = h$$

$$5 = h$$

Sep 27-9:49 AM