Review Day

Make Good Choices

1) Don't use the Product Rule!! Why?

$$y = 5x^3$$
, $y = \frac{1}{5}(x^2 - 3x + 1)$

$$y = 5x^3(x-3)$$
 $y = \frac{2\pi x}{\sqrt{3}} \left(\frac{5}{2} - \frac{\pi}{x}\right)$

2) Don't use the Quotient Rule! why?

$$y = \frac{5}{x}$$

$$y = \frac{5}{(x-2)^7}$$

$$y = 5 \frac{x^3 + 6x^2 - 7x}{3\sqrt{x}}$$

If you want a nice factored derivative Function, then using the <u>Product Rule</u> is probably a good idea especially when the denominator is a radical.

Ex:
$$y = \frac{5x^3 + 6x^2}{(x-3)^{\frac{1}{3}}} = (5x^3 + 6x^2)(x-3)^{-\frac{1}{3}}$$

Gr. 9 Measurement Formula UNDERSTOOD

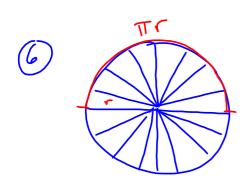
2-D: Everything is a Rectangle

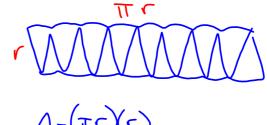
$$A = bh$$

$$A = \frac{bh}{2}$$

$$A = \frac{ah}{2} + \frac{bh}{2}$$

$$= h(a+b)$$





$$A = (\pi r)(r)$$

$$= \pi r^2$$

(7) Prisme + Pyramids (Including (ylinders+ lones)

$$V = BA \cdot h$$
 $V = \frac{1}{3} BA \cdot h$

(8.) Spheres

$$SA=4\pi r^2$$
 $V=\frac{4}{3}\pi r^3$