BE-PRECALC WEDNESDAY 8-26-09

① FIND THE EOL (EQUATION of the LINE) through $(-6, 3)$, $(4, 5)$.

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💡 THIS ONE IS MENTAL MATH

ACT KMJ JUNE 09

① A function $f(x)$ is defined as $f(x) = -8x^2$. What is $f(-3)$?

② LINES P AND N lie in the STANDARD (X,Y) COORDINATE PLANE. AN EQUATION for LINE P is $y = 0.12x + 3{,}000$. The SLOPE of LINE N is 0.1 greater than the SLOPE of line P. What is the slope of LINE N?

③ Simplify $(a+2b+3c)-(4a+6b-5c)$

① $f(x) = -8x^2$

$f(-3) = -8(-3)^2$

$= -8(9)$

$= \boxed{-72}$

$m_p = .12$

$\therefore +.10$

$\boxed{.22}$

↑ SLOPE of LINE N

$(a+2b+3c)-(4a+6b-5c)$

$a+2b+3c-4a-6b+5c$

$\boxed{-3a-4b+8c}$

HW Review

Pg. 30 # 11, 12, 17, 18, 19, 23

(11) $y = 5x - 2$

(12) $y = 8x + 61$

(17) $y = -\frac{4}{9}x + \frac{49}{9}$

(18) $y = \frac{5}{8}x + 5$

(19) $y = 1 \Rightarrow$ horizontal line, y is "always" 1

(23) $(-2, -4)$ $m = -\frac{1}{2}$

x, y

$y = mx + b$

$-4 = -\frac{1}{2} \cdot -2 + b$

$-4 = 1 + b$ $\therefore b = -5$

$-1 \quad -1$

$\therefore y = -\frac{1}{2}x - 5$

$+\frac{1}{2}x \qquad +\frac{1}{2}x$

$2\left[\frac{1}{2}x + y\right] = -5 \cdot 2$

$x + 2y = -10$

$Ax + By = C$

Lapboard Practice