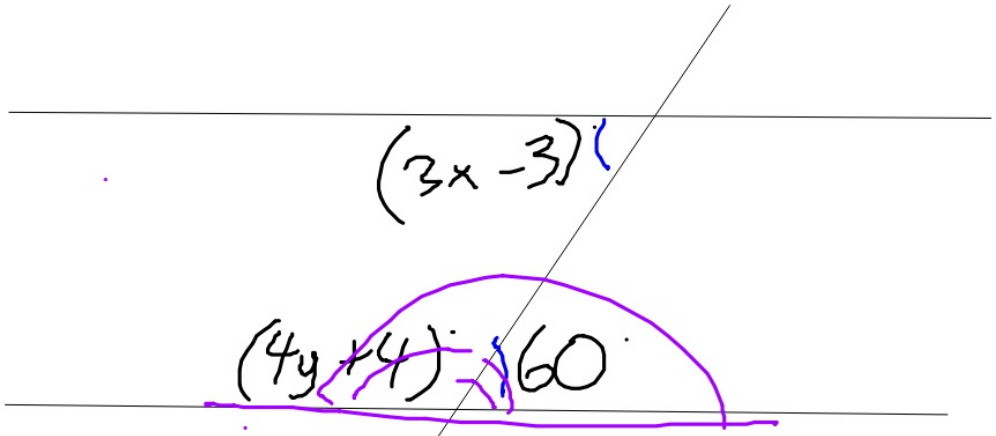
I am passing back your ch 3 quizzes. Review any problems that you missed and have questions ready for when I am *finished* passing out papers.



$3x - 3 = 60$

$+3 \quad +3$

$3x = 63$

$x = 21$

$4y + 4 + 60 = 180$

$-4 \quad -4$

$4y = 116$

$\frac{4y}{4} = \frac{116}{4}$

$y = 29$

Consec. interior

$m\angle 10 + m\angle 13 = 180$

$3x - 7 + 4x - 9 = 180$

$7x - 16 = 180$

$$m = \frac{15-(-3)}{7-1} = \frac{18}{6} = 3$$

$(1, -3)$

x_1, y_1

$$y-(-3) = 3(x-1)$$

$$y+3 = 3x-3$$

$$-3 \quad\quad -3$$

$$y = 3x-6$$

$(2, 0)$ $(0, 12)$

$y = mx + b$

$b = 12$

$m = \frac{12 - 0}{0 - 6} = \frac{12}{-6}$

-2

$y = -2x + 12$

Write an equation in slope-intercept form for each line described.

13. passes through $(-8, 1)$, perpendicular to $y = 2x - 17$

$x, y,$

$\perp$ slope $= -\frac{1}{2}$

$y - 1 = -\frac{1}{2}(x - (-8))$

$y - 1 = -\frac{1}{2}x - 4$

$+1 \qquad +1$

$y = -\frac{1}{2}x - 3$

Write an equation in slope-intercept form for each line described.

14. passes through $(0, 7)$, parallel to $y = 4x - 19$

x_1, y_1

$m = 4$

$y - 7 = 4(x - 0)$

$y - 7 = 4x - 0$

$+7 \quad +7$

$y = 4x + 7$

Write an equation in slope-intercept form for each line described.

15. passes through $(-12, 3)$, perpendicular to $y = -\frac{2}{3}x - 11$

x_1, y_1

$m = \frac{3}{2}$

$\frac{3}{2} \times \frac{12}{1} = \frac{36}{2}$

$y - 3 = \frac{3}{2}(x - (-12))$

$y - 3 = \frac{3}{2}x + 18$