

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.

$$3x - 3 + 4(29) + 4 = 180 \quad (3x - 3)^\circ$$

$$3x - 3 + 116 + 4 = 180$$

$$3x + 117 = 180$$

$$-117 \quad -117$$

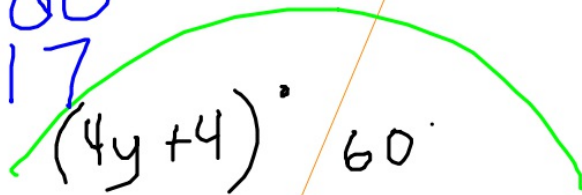
$$\frac{3x}{3} = \frac{63}{3}$$

$$x = 21$$

$$4y + 4 + 60 = 180$$
$$-64 \quad -64$$

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

$$y = 29$$



$$y - y_1 = m(x - x_1)$$

$$y - 7 = \frac{1}{2}(x - (-4))$$

$$y - 7 = \frac{1}{2}(x + 4)$$

$$m \overline{AB} = \frac{7-3}{8-2} = \frac{4}{6} = \frac{2}{3}$$

$$\frac{-3}{2} = \frac{1-y_1}{6-x_1}$$

D  $(x_1, y_1)$

C  $(\underset{x_2}{6}, \underset{y_2}{1})$

$\overline{CD}$  slope

of  $-\frac{3}{2}$

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

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

slope of eqn =  $4$ <sub>m</sub>

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

$$y - 7 = 4x$$

$$y = 4x + 7$$

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

solve for y :  $y = mx + b$ .

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

Need: slope & point

slope of line =  $\frac{3}{2}$

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

$$\frac{3}{2} \times \frac{12}{1} = \frac{36}{2} \quad y - 3 = \frac{3}{2}x + 18$$

$$y = \frac{3}{2}x + 21$$