

Lesson 5-4A - Transforming Equations

Algebra - January 12, 2012

Transform to slope-intercept form

$$y - 2 = -4(x - 3)$$

$$y - 2 = -4x + 12$$

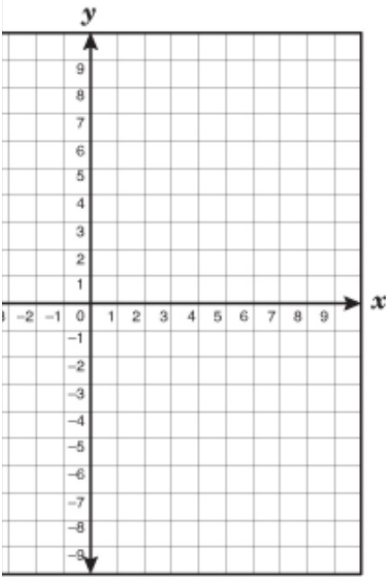
$$y = -4x + 14$$

$$m = -4$$

$$b = 14$$

Due Tomorrow: 5-4A p.255 #2-8 even (transform to slope-intercept form)
#10, 14 (write in slope-intercept form)

Transform to slope-intercept



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

$$y + 5 = \frac{1}{2}x - 3$$

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

$$\frac{1}{2} \cdot \frac{-6}{1} = \frac{-6}{2}$$

-3

$$m = \frac{1}{2}$$
$$b = -8$$

Write the equation of the line that has the given slope and passes through the given point.

$$m=2 \quad (4, 3)$$

$$y = mx + b$$

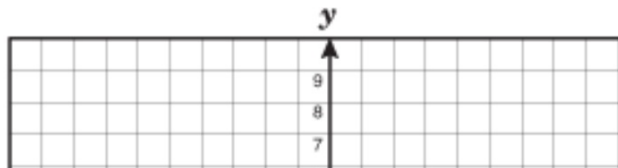
$$3 = 2(4) + b$$

$$3 = 8 + b$$

$$-5 = b$$

$$m = 2$$
$$b = -5$$

$$y = 2x - 5$$



Write the equation of the line that has the given slope and passes through the given point.

$$m = 3$$

$$(6, 9)$$

$$m = 3$$

$$b = -9$$

$$y = mx + b$$

$$9 = 3(6) + b$$

$$9 = 18 + b$$

$$-9 = b$$

$$y = 3x - 9$$

p.255

#2-8 even (transform into $y=mx+b$)

#10, 14 (write equation in $y=mx+b$ and graph)