Algebra 1 ECA Remediation

Name *Answer Key*

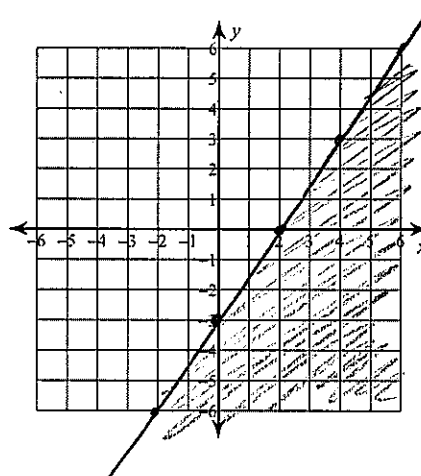# Homework 13.2

Sketch the graph of each linear inequality.
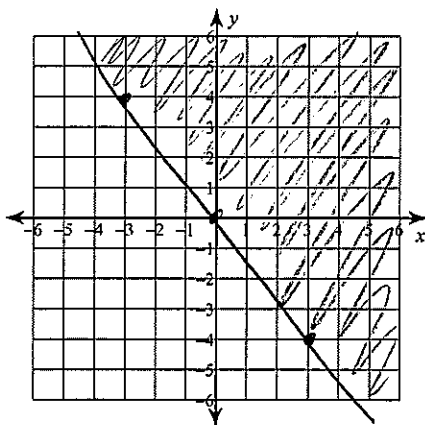
1) $y > 4x + 1$
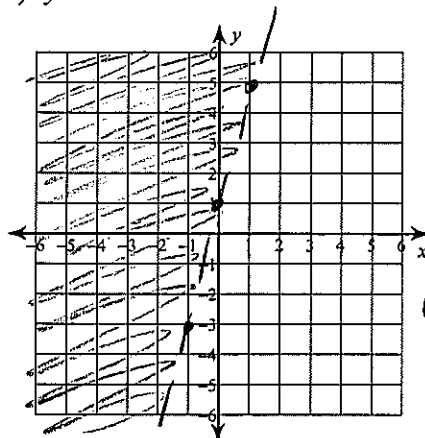
$m = 4$

$b = 1$

dashed

above

2) $y \leq \dfrac{3}{2}x - 3$
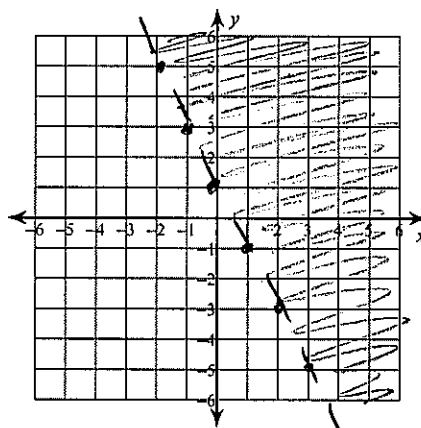

$m = \dfrac{3}{2}$
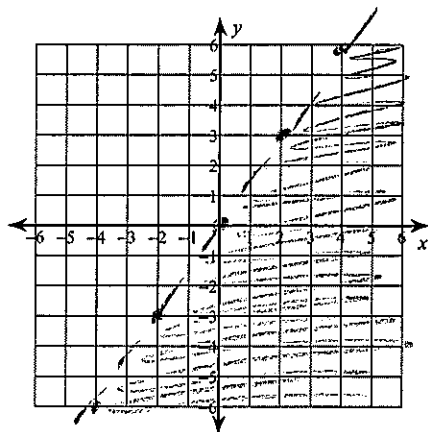
$b = -3$

solid

below

3) $y \geq -\dfrac{4}{3}x$

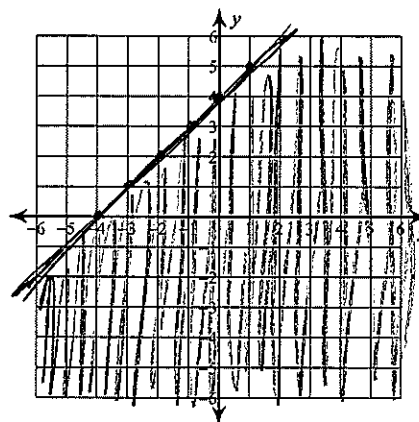$m = -\dfrac{4}{3}$

$b = 0$

solid

above

4) $y > -2x + 1$

$m = -2$

$b = 1$

dashed

above

-1-

5) $y < \dfrac{3}{2}x$

6) $y \le x + 4$

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

$b = 0$

dashed below

$m = 1$

$b = 4$

solid below

Write the slope-intercept form of the equation of the line through the given point with the given slope.

7) through: $(3, 0)$,　slope $= \dfrac{4}{3}$

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

$y - 0 = \dfrac{4}{3}(x - 3)$

$3(y - 0) = 4(x - 3)$

$\dfrac{3y}{3} = \dfrac{4x}{3} - \dfrac{12}{3}$

$y = \dfrac{4}{3}x - 4$

8) through: $(2, 2)$,　slope $= 3$
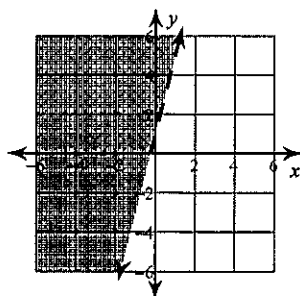
$y - y_1 = m(x - x_1)$

$y - 2 = 3(x - 2)$
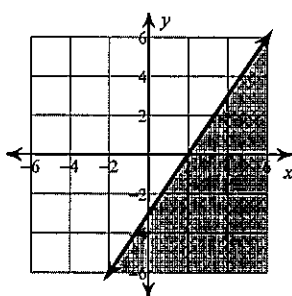
$y - 2 = 3x - 6$

$ + 2 \qquad\quad + 2$

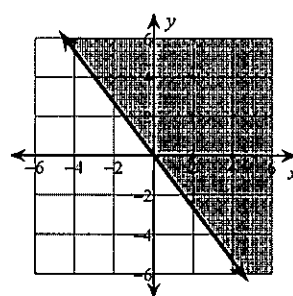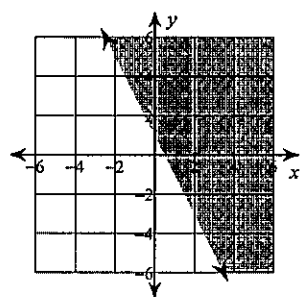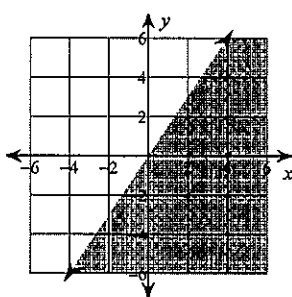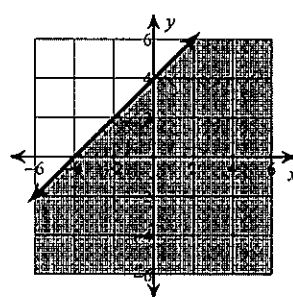$y = 3x - 4$

Answers to Homework 13.2 (ID: 1)

1)

2)

3)

4)

5)

6)

7) $y = \dfrac{4}{3}x - 4$

8) $y = 3x - 4$