Algebra 1 ECA Remediation

Name ___Answer Key___

ID: 1

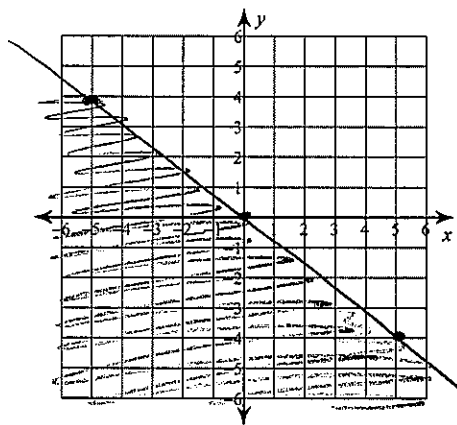# Homework 13.3

Sketch the graph of each linear inequality.
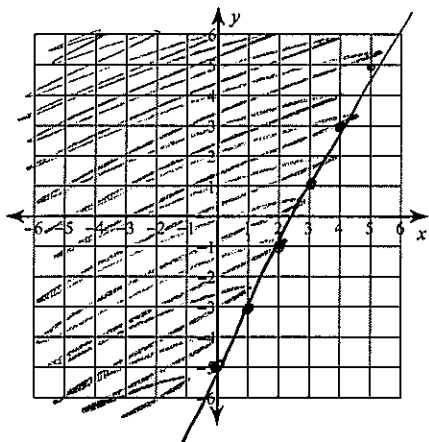
1) $y < -2x - 1$
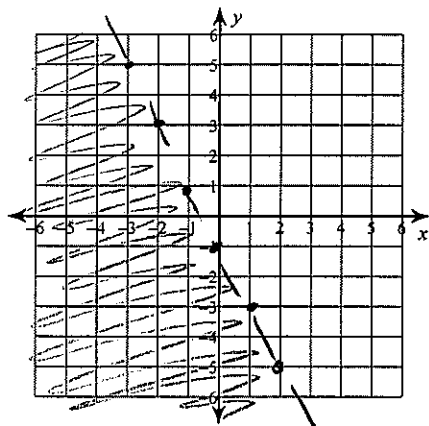
$m = -2$
$b = -1$
dashed
below

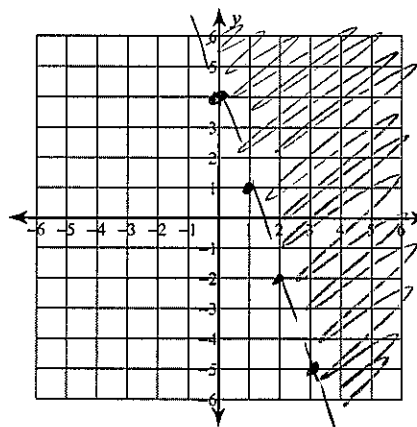2) $y \leq -\dfrac{4}{5}x$

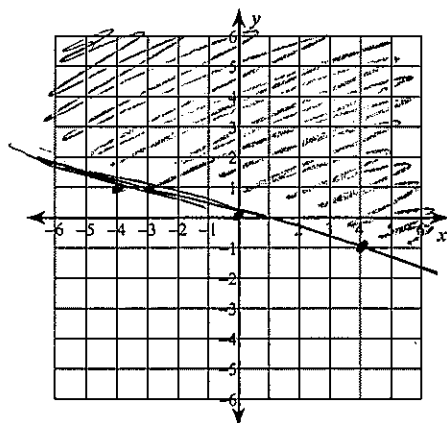$m = -\dfrac{4}{5}$
$b = 0$
solid
below

3) $y \geq 2x - 5$

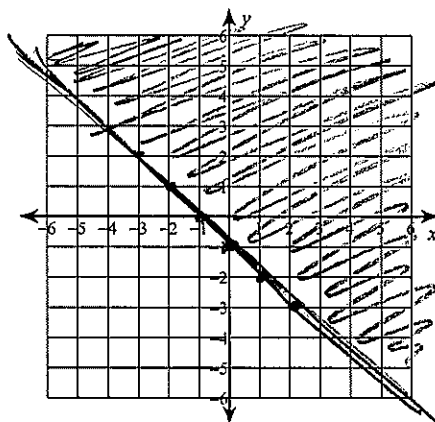$m = 2$
$b = -5$
solid
above

4) $y > -3x + 4$

$m = -3$
$b = 4$
dashed
above

5) $y \geq -\frac{1}{4}x$

$m = -\frac{1}{4}$

$b = 0$

solid above

6) $y \geq -x - 1$

$m = -1$

$b = -1$

solid above

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

7) through: $(3, 5)$, slope $= \frac{10}{3}$

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

$y - 5 = \frac{10}{3}(x - 3)$

$3(y - 5) = 10(x - 3)$

$3y - 15 = 10x - 30$

$\underline{+15 \qquad\qquad +15}$

$\frac{3y}{3} = \frac{10x}{3} \frac{-15}{3}$

$y = \frac{10}{3}x - 5$

8) through: $(-1, 0)$, slope $= 4$
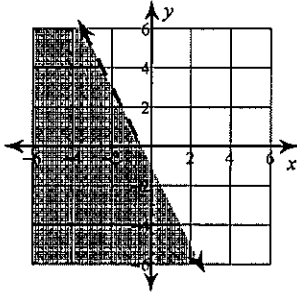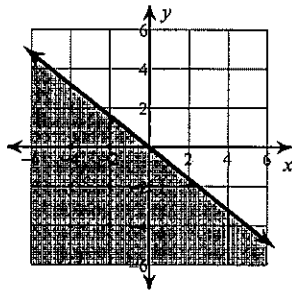
$y - y_1 = m(x - x_1)$

$y - 0 = 4(x + 1)$

$y = 4x + 4$

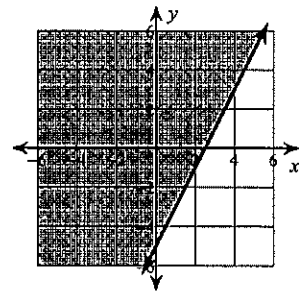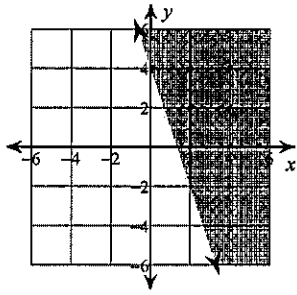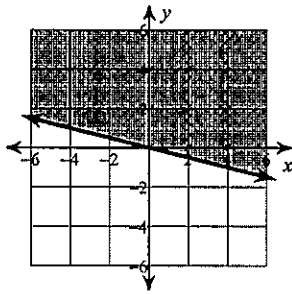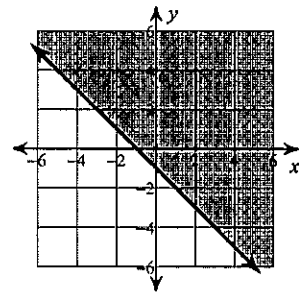# Answers to Homework 13.3 (ID: 1)

1)

2)

3)

4)

5)

6)

7) $y = \dfrac{10}{3}x - 5$

8) $y = 4x + 4$