Name_____

Review of Linear Equations

Date_____ Period____

Sketch the graph of each line.

1) $y = \dfrac{6}{5}x - 2$

2) $y = \dfrac{4}{3}x + 1$

3) $9x + y = 5$

4) $2x + y = 5$

5) $2y = -2$

6) $-y = x + 2$

Write the standard form of the equation of each line given the slope and y-intercept.

7) Slope $= -\dfrac{3}{5}$, y-intercept $= 5$

8) Slope $= 9$, y-intercept $= 4$

Write the standard form of the equation of each line.

9) $y = -\dfrac{7}{5}x + 1$

10) $y = \dfrac{3}{2}x + 5$

11) $y + 4 = -7(x - 1)$

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

13) $-10x - y = -5$

14) $-4 - 2y = -x$

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

15) through: $(4, -2)$, slope $= -1$

16) through: $(-2, 4)$, slope $= -\dfrac{1}{7}$

Write the standard form of the equation of the line through the given points.

17) through: $(-3, 2)$ and $(0, -1)$

18) through: $(0, 4)$ and $(-1, -1)$

Write the standard form of the equation of the line described.

19) through: $(2, 0)$, parallel to $y = \dfrac{2}{3}x$

20) through: $(-2, 4)$, parallel to $y = -\dfrac{3}{2}x + 3$

21) through: $(2, 4)$, perp. to $y = -\dfrac{2}{7}x - 5$

22) through: $(5, 0)$, perp. to $y = -x + 5$

Name_____

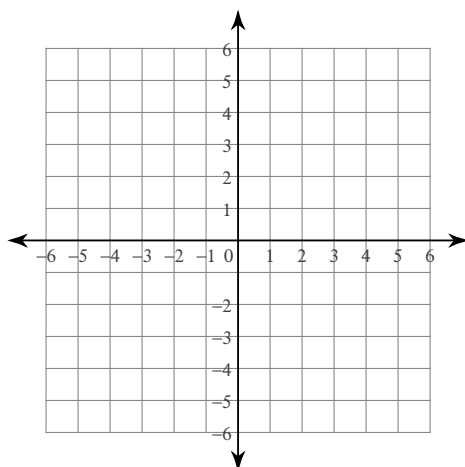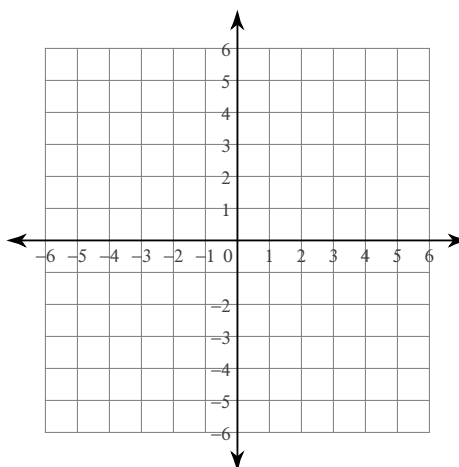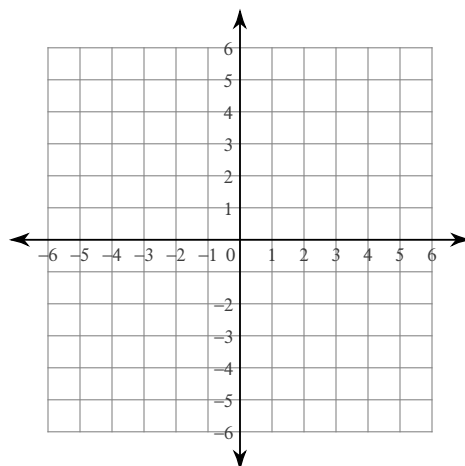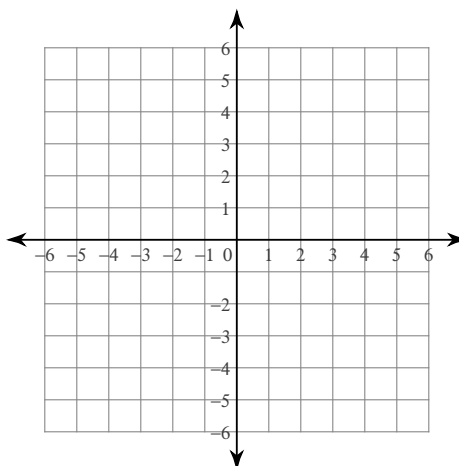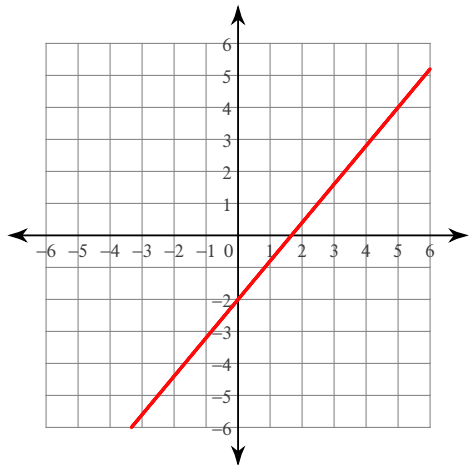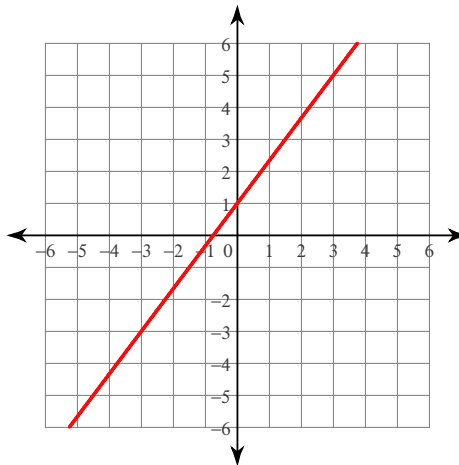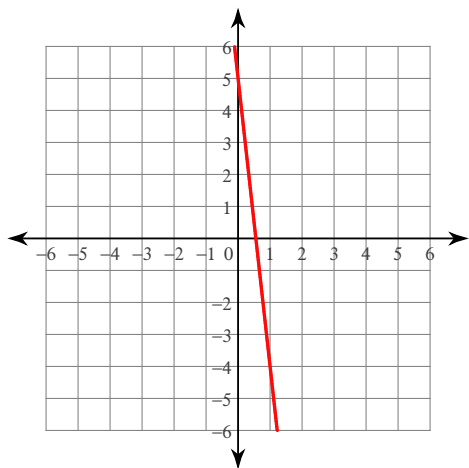# Review of Linear Equations

Sketch the graph of each line.
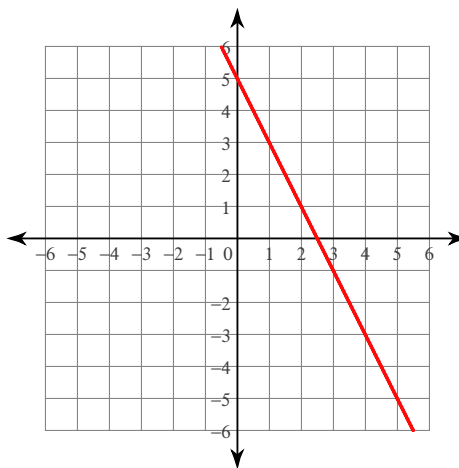
1) $y = \dfrac{6}{5}x - 2$
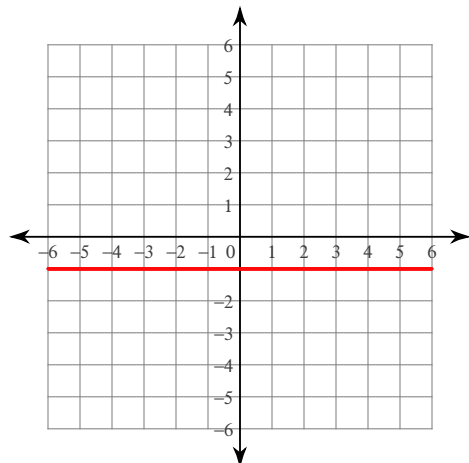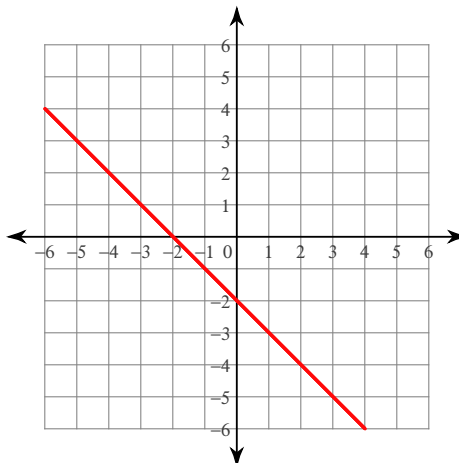
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6) $-y = x + 2$

Write the standard form of the equation of each line given the slope and y-intercept.

7) Slope $= -\dfrac{3}{5}$, y-intercept $= 5$

$3x + 5y = 25$

8) Slope $= 9$, y-intercept $= 4$

$9x - y = -4$

Write the standard form of the equation of each line.

9) $y = -\dfrac{7}{5}x + 1$

$7x + 5y = 5$

10) $y = \dfrac{3}{2}x + 5$

$3x - 2y = -10$

11) $y + 4 = -7(x - 1)$

$7x + y = 3$

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

$x + y = -4$

13) $-10x - y = -5$

$10x + y = 5$

14) $-4 - 2y = -x$

$x - 2y = 4$

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

15) through: $(4, -2)$, slope $= -1$

$x + y = 2$

16) through: $(-2, 4)$, slope $= -\dfrac{1}{7}$

$x + 7y = 26$

Write the standard form of the equation of the line through the given points.

17) through: $(-3, 2)$ and $(0, -1)$

$x + y = -1$

18) through: $(0, 4)$ and $(-1, -1)$

$5x - y = -4$

Write the standard form of the equation of the line described.

19) through: $(2, 0)$, parallel to $y = \dfrac{2}{3}x$

$2x - 3y = 4$

20) through: $(-2, 4)$, parallel to $y = -\dfrac{3}{2}x + 3$

$3x + 2y = 2$

21) through: $(2, 4)$, perp. to $y = -\dfrac{2}{7}x - 5$

$7x - 2y = 6$

22) through: $(5, 0)$, perp. to $y = -x + 5$

$x - y = 5$