For 1 - 3, write an equation of the line with the given slope and y-intercept (SLOPE-INTERCEPT FORM).

1.
$$m = 4, b = -4$$

1.
$$m = 4, b = -4$$
 2. $m = \frac{4}{3}, b = 6$ 3. $m = 8, b = 0$

3.
$$m = 8, b = 0$$

For 4 - 9, write an equation of the line that passes through the given point and has the given slope.

(POINT-SLOPE FORM)

4.
$$(2, 1)$$
, $m = -2$ 5. $(-4, 3)$, $m = 5$ 6. $(7, -5)$, $m = 1$

5.
$$(-4, 3)$$
, m = 5

6.
$$(7, -5)$$
, $m = 1$

(SLOPE-INTERCEPT FORM)

7.
$$(-1, -10)$$
, $m = 3$

7.
$$(-1, -10)$$
, m = 3 8. $(5, -2)$, m = -1 9. $(-3, -7)$, m = 2

For 10 - 12, write an equation of the line that passes through the given points.

(SLOPE-INTERCEPT FORM)

For 13 - 15, write an equation of the line that passes through the given points.

(STANDARD FORM)

- 13. (3, -7) & (-2, 3) 14. (-6, 1) & (-5, 4) 15. (10, -4) & (6, -10)

For 16 - 18, write an equation of the line that passes through the given point and is PERPENDICULAR to the given line.

- 16. (1, 3), y = 2x 1 17. (1, 1), x 2y = 14 18. (7, -3), y = 8

For 19 – 21, write an equation of the line that passes through the given point and is PARALLEL to the given line.

- 19. (-2, 1), y = 2x + 5 20. (10, -12), 3x + 4y = 4 21. (-3, -5), y = 12 + x

For 22:

- Graph the equation on the axis using slope-intercept form. A)
- B) Graph a PARALLEL line to the given equation though (0, -1).
- Graph a PERPENDICULAR line to the given equation through the C) y-intercept.
- 22. v = 3x + 4

