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

$y - 1 = 2(x - 2)$

The equation is $y - 1 = 2(x - 2)$.

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

$y - 5 = -1(x - 3)$

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

The equation is $y - 5 = -(x - 3)$.

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

$y - (-4) = -6(x - 7)$

$y + 4 = -6(x - 7)$

The equation is $y + 4 = -6(x - 7)$.

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

$y - (-2) = 5[x - (-8)]$

$y + 2 = 5(x + 8)$

The equation is $y + 2 = 5(x + 8)$.

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

$y - 0 = -3(x - 9)$

$y = -3(x - 9)$

The equation is $y = -3(x - 9)$.

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

$y - 2 = 4(x - 0)$

$y - 2 = 4x$

The equation is $y - 2 = 4x$.

32. The values that are substituted for x_1 and y_1 should be from the same point.

$$m = \frac{3 - 2}{4 - 1} = \frac{1}{3}$$

Let $(x_1, y_1) = (1, 2)$.

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

$$y - 2 = \frac{1}{3}(x - 1)$$

An equation is $y - 2 = \frac{1}{3}(x - 1)$.