WRITING PARALLEL LINE EQUATIONS

Parallel Lines has the <u>Same</u> slope. The easiest formula to use is Point-slope $y-y_{,=}m(x-x_{,})$ because it gives the slope m and a point on the line.

Directions: For #1-8, write the equation of a line that is parallel (//) to the given line and passes through the given point.

(1)
$$y = 4x + 1$$
 and the parallel line equation
passes through (5, 16).
 $m = \frac{4}{4}$.
 $y - y_1 = m(x - x_1)$
 $y - 1b = 4(x - 5)$
 $y - y_1 = m(x - x_1)$
 $y + 3l = -3(x - 16)$
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 $y - y_1 = m(x - x_1)$
 $y + 1l = 3(x + 6)$
 $y = 3x + 1$

