



Parallel and Perpendicular Lines

Name _____

Score _____

TI:23

- 1) Write the equation of a line perpendicular to a line $y = 3x - 4$ and passes through a point $(0, -5)$.

- 2) Find the equation of a line parallel to a line $4x + 8y = 12$ and passes through point $(4, 6)$.

- 3) Find the equation of a line perpendicular to a line $y = 5x - 1$ and having y-intercept is $\frac{1}{2}$.

- 4) Find the equation of a line passes through point $(-2, -2)$ and parallel to a line $x + 2y = 4$.

- 5) Write the equation of a line whose y-intercept is -6 and parallel to a line $y = \frac{2}{7}x - 1$.



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Answer key

TI:23

- 1) Write the equation of a line perpendicular to a line $y = 3x - 4$ and passes through a point $(0, -5)$.

$$\underline{x - 3y = 15}$$

- 2) Find the equation of a line parallel to a line $4x + 8y = 12$ and passes through point $(4, 6)$.

$$\underline{x + 2y = 16}$$

- 3) Find the equation of a line perpendicular to a line $y = 5x - 1$ and having y-intercept is $\frac{1}{2}$.

$$\underline{2x + 10y = 5}$$

- 4) Find the equation of a line passes through point $(-2, -2)$ and parallel to a line $x + 2y = 4$.

$$\underline{x + 2y = -6}$$

- 5) Write the equation of a line whose y-intercept is -6 and parallel to a line $y = \frac{2}{7}x - 1$.

$$\underline{2x + 7y = 42}$$