



Parallel and Perpendicular Lines

Name _____

Score _____

TI:24

- 1) Find the equation of a line perpendicular to a line $4x - y = 8$ and having y-intercept is 5.

- 2) Write the equation of a line perpendicular to a line $2x + 2y = 3$ and passes through a point $(-4, -1)$.

- 3) Find the equation of a line passes through point $(6, 6)$ and parallel to a line $4y = 5 - 6x$.

- 4) Write the equation of a line whose y-intercept is $-\frac{3}{5}$ and parallel to a line $y = \frac{7}{9}x - 1$.

- 5) Find the equation of a line perpendicular to a line $3y - 5x - 1 = 0$ and having y-intercept is -4 .



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Answer key

TI:24

- 1) Find the equation of a line perpendicular to a line $4x - y = 8$ and having y-intercept is 5.

$$\underline{x + 4y = 20}$$

- 2) Write the equation of a line perpendicular to a line $2x + 2y = 3$ and passes through a point $(-4, -1)$.

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

- 3) Find the equation of a line passes through point $(6, 6)$ and parallel to a line $4y = 5 - 6x$.

$$\underline{3x + 2y = 30}$$

- 4) Write the equation of a line whose y-intercept is $-\frac{3}{5}$ and parallel to a line $y = \frac{7}{9}x - 1$.

$$\underline{35x - 45y = 27}$$

- 5) Find the equation of a line perpendicular to a line $3y - 5x - 1 = 0$ and having y-intercept is -4 .

$$\underline{3x + 5y = -20}$$