



# Parallel and Perpendicular Lines

Name \_\_\_\_\_

Score \_\_\_\_\_

TI:22

- 1) Find the equation of a line passes through point  $(2, 5)$  and parallel to a line  $3x + y = 2$ .

\_\_\_\_\_

- 2) Find the equation of a line perpendicular to a line  $2y = 4x - 6$  and having y-intercept is  $-1$ .

\_\_\_\_\_

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

\_\_\_\_\_

- 4) Write the equation of a line perpendicular to a line  $2x - 7y = 6$  and passes through a point  $(-1, 3)$ .

\_\_\_\_\_

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

\_\_\_\_\_



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## Answer key

TI:22

- 1) Find the equation of a line passes through point (2, 5) and parallel to a line  $3x + y = 2$ .

$$\underline{3x + y = 11}$$

- 2) Find the equation of a line perpendicular to a line  $2y = 4x - 6$  and having y-intercept is  $-1$ .

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

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

$$\underline{3x + 4y = 20}$$

- 4) Write the equation of a line perpendicular to a line  $2x - 7y = 6$  and passes through a point  $(-1, 3)$ .

$$\underline{7x + 2y = -1}$$

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

$$\underline{x + y = -10}$$