



## Finding Unknown Variable

Name \_\_\_\_\_

Score \_\_\_\_\_

TI:08

1) If the point  $(4, 7)$  lies on the equation of a line  $5x - y = k$ , then find the value of  $k$ .

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2) If the point  $(0, -2)$  lies on the equation of a line  $ky = -6 + x$ , then find the value of  $k$ .

\_\_\_\_\_

3) If the point  $(10, 3)$  lies on the equation of a line  $kx = 4y - 2$ , then find the value of  $k$ .

\_\_\_\_\_

4) If the point  $(-1, -4)$  lies on the equation of a line  $2x + 3y = k$ , then find the value of  $k$ .

\_\_\_\_\_

5) If the point  $(-5, -9)$  lies on the equation of a line  $4 = x - ky$ , then find the value of  $k$ .

\_\_\_\_\_

6) If the point  $(-2, 1)$  lies on the equation of a line  $kx + 7y = -1$ , then find the value of  $k$ .

\_\_\_\_\_



# Finding Unknown Variable

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Score \_\_\_\_\_

## Answer key

TI:08

- 1) If the point (4, 7) lies on the equation of a line  $5x - y = k$ , then find the value of  $k$ .

**$k = 13$**

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- 2) If the point (0, -2) lies on the equation of a line  $ky = -6 + x$ , then find the value of  $k$ .

**$k = 3$**

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- 3) If the point (10, 3) lies on the equation of a line  $kx = 4y - 2$ , then find the value of  $k$ .

**$k = 1$**

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- 4) If the point (-1, -4) lies on the equation of a line  $2x + 3y = k$ , then find the value of  $k$ .

**$k = -14$**

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- 5) If the point (-5, -9) lies on the equation of a line  $4 = x - ky$ , then find the value of  $k$ .

**$k = 1$**

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- 6) If the point (-2, 1) lies on the equation of a line  $kx + 7y = -1$ , then find the value of  $k$ .

**$k = 4$**

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