



## Finding Unknown Variable

Name \_\_\_\_\_

Score \_\_\_\_\_

TI:07

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

\_\_\_\_\_

2) If the point  $(3, -5)$  lies on the equation of a line  $-2y = k + 3x$ , then find the value of  $k$ .

\_\_\_\_\_

3) If the point  $(-2, -4)$  lies on the equation of a line  $x + ky = -22$ , then find the value of  $k$ .

\_\_\_\_\_

4) If the point  $(0, 3)$  lies on the equation of a line  $-6 + 4x = ky$ , then find the value of  $k$ .

\_\_\_\_\_

5) If the point  $(1, 1)$  lies on the equation of a line  $3y - 7x = k$ , then find the value of  $k$ .

\_\_\_\_\_

6) If the point  $(-6, 4)$  lies on the equation of a line  $kx + y = -2$ , then find the value of  $k$ .

\_\_\_\_\_



# Finding Unknown Variable

Name \_\_\_\_\_

Score \_\_\_\_\_

## Answer key

TI:07

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

**$k = 4$**

---

- 2) If the point (3, -5) lies on the equation of a line  $-2y = k + 3x$ , then find the value of k.

**$k = 1$**

---

- 3) If the point (-2, -4) lies on the equation of a line  $x + ky = -22$ , then find the value of k.

**$k = 5$**

---

- 4) If the point (0, 3) lies on the equation of a line  $-6 + 4x = ky$ , then find the value of k.

**$k = -2$**

---

- 5) If the point (1, 1) lies on the equation of a line  $3y - 7x = k$ , then find the value of k.

**$k = -4$**

---

- 6) If the point (-6, 4) lies on the equation of a line  $kx + y = -2$ , then find the value of k.

**$k = 1$**

---