

Name.....Period.....

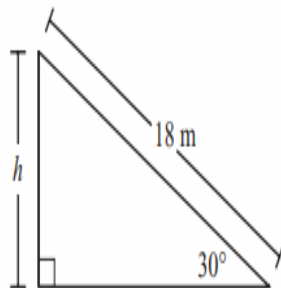
Jay and Kalani graphed lines on a coordinate plane. Jay's line is represented by the equation below.

$$y = 2x - 5$$

Kalani's line is parallel to Jay's line. Which of the following could be an equation of Kalani's line?

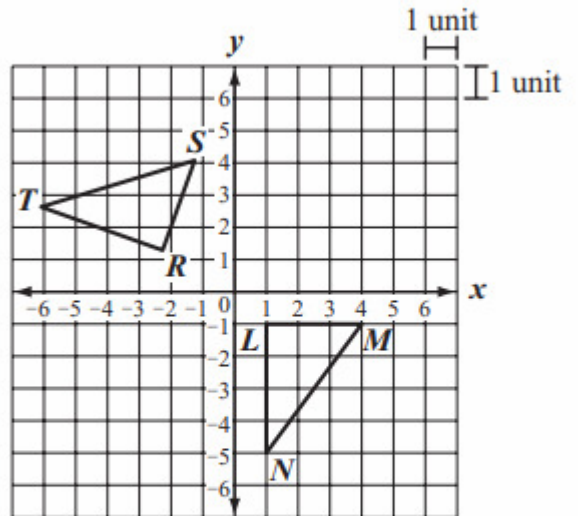
- A. $2x + y = -5$
- B. $-2x + y = 5$
- C. $x + 2y = -5$
- D. $-x + 2y = 5$

The diagram below shows a right triangle and some of its measurements.



What is h , the height in meters of the triangle?

The diagram below shows $\triangle LMN$ and its image, $\triangle RST$, after a series of transformations in the coordinate plane.

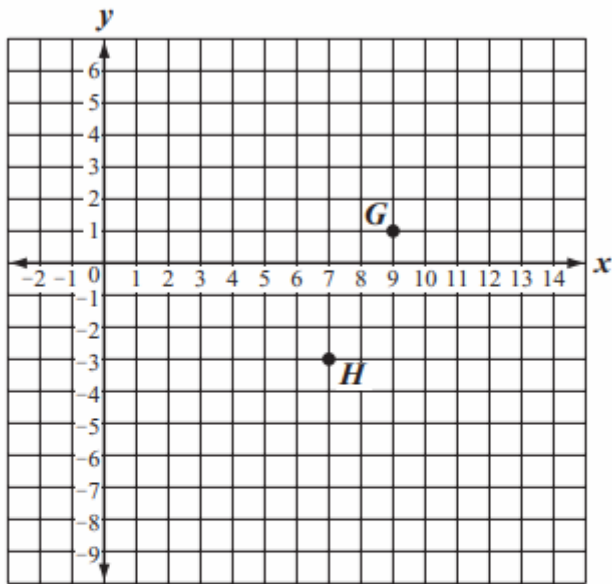


What is the length, in units, of \overline{RT} ?

- A. 3
- B. 3.5
- C. 4
- D. 4.5

2.

- 32 A student plotted point $G(9, 1)$ and point $H(7, -3)$ on a coordinate grid, as shown below.

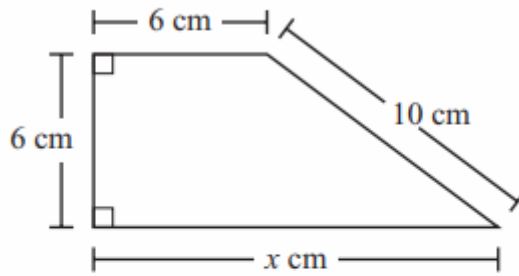


The student will plot point F so that the midpoint of \overline{GF} is point H . What will be the coordinates of point F ?

- A. $(3, -5)$
- B. $(5, -7)$
- C. $(8, -1)$
- D. $(11, 5)$

3.

The diagram below shows a trapezoid and its measurements.



The trapezoid has an area of 60 square centimeters.

What is the value of x ?

- A. 10
- B. 14
- C. 16
- D. 38

4.