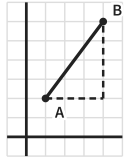


Coordinates and Pythagoras



1

Find the distance from (1, 2) to (4, 6).



across $4 - 1 = 3$
 up $6 - 2 = 4$
 distance $\sqrt{(\quad + \quad)} = \quad$

Answer _____

2

Find the distance from (2, 1) to (14, 6).

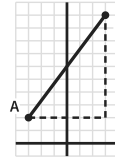


across $14 - 2 = 12$
 up $\quad - \quad = \quad$
 distance $\sqrt{(\quad + \quad)} = \quad$

Answer _____

3

Find the distance from (-3, 2) to (3, 10).

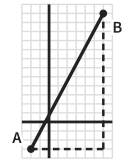


across $\quad - \quad = \quad$
 up $\quad - \quad = \quad$
 distance $\sqrt{(\quad + \quad)} = \quad$

Answer _____

4

Find the distance from (-2, -3) to (6, 12).

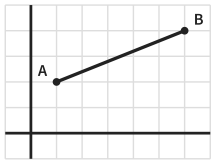


distance $\sqrt{(\quad + \quad)} = \quad$

Answer _____

5

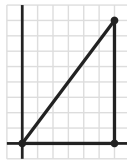
Find the distance from (1, 2) to (6, 4) to 1 decimal place.



Answer _____

6

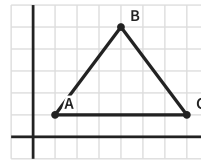
A triangle has corners at (0, 0), (6, 0) and (6, 8). Find its perimeter.



Answer _____

7

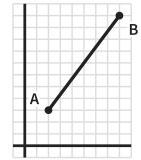
A is (1, 1), B is (4, 5) and C is (7, 1). Show that triangle ABC is isosceles.



Answer _____

8

M is the midpoint of A(2, 3) and B(8, 11). Find the coordinates of M and the distance from M to A.



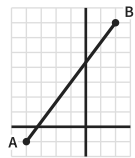
Answer _____

Coordinates and Pythagoras *further practice*



9

Find the distance from (-4, -1) to (2, 7).



Answer _____

10

A circle has centre (0, 0) and radius 13. Does the point (5, 12) lie on the circle? Explain.

Answer _____

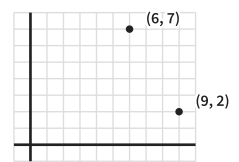
11

A is (1, 2) and B is (k, 6). AB = 5 and $k > 1$. Find k.

Answer _____

12

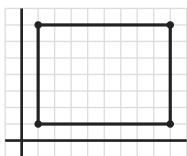
Which point is closer to the origin, (6, 7) or (9, 2)?



Answer _____

13

A rectangle has corners (1, 1), (9, 1), (9, 7) and (1, 7). Find the length of its diagonal.



Answer _____

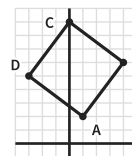
14

On a map one square is 1 km. A runner goes from (2, 1) to (5, 5), then on to (11, 13). How far does she run?

Answer _____

15

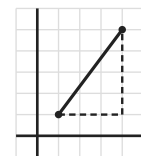
ABCD is a square with A(1, 2), B(4, 6), C(0, 9) and D(-3, 5). Find its area.



Answer _____

16

Tia says the distance from (1, 1) to (4, 5) is $3 + 4 = 7$. Explain her mistake.



Answer _____