

Pythagorean Theorem Practice

Date _____ Period _____

Find the missing side of each right triangle. Write the answer in the exact form and decimal form. Round your answer to the nearest hundredth, if necessary. Show all your work.

1) $a = 3$ in, $b = 4$ in

2) $a = 6$ cm, $c = 10$ cm

3) $b = 10.7$ m, $c = 11.6$ m

4) $b = 9.2$ ft, $c = 13.7$ ft

State if each triangle is a right triangle. Show all work.

5) 9 km, 12 km, 15 km

6) 5 mi, 12 mi, 13 mi

7) 4.8 in, 14 in, 14.8 in

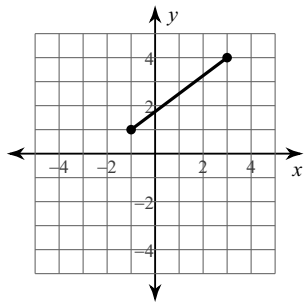
8) 16 cm, 16.8 cm, 24 cm

9) 11 cm, 60 cm, 61 cm

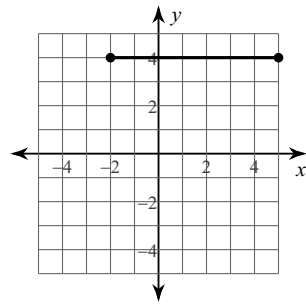
10) 19.5 in, 40 in, 44.2 in

Use the Pythagorean Theorem to find the distance between each pair of points. Write the answer in the exact form and decimal form. Round your answer to the nearest hundredth, if necessary.

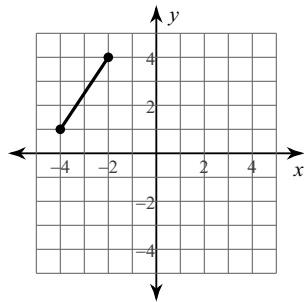
11)



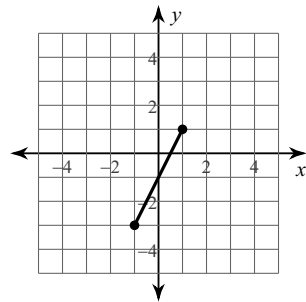
12)



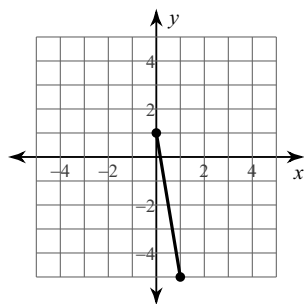
13)



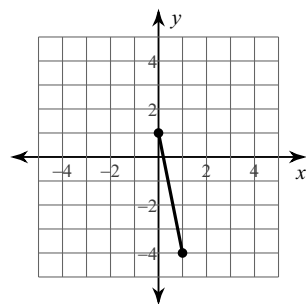
14)



15)



16)



Pythagorean Theorem Practice

Date _____ Period _____

Find the missing side of each right triangle. Write the answer in the exact form and decimal form. Round your answer to the nearest hundredth, if necessary. Show all your work.

1) $a = 3$ in, $b = 4$ in

5 in

2) $a = 6$ cm, $c = 10$ cm

8 cm

3) $b = 10.7$ m, $c = 11.6$ m

4.5 m

4) $b = 9.2$ ft, $c = 13.7$ ft

10.2 ft

State if each triangle is a right triangle. Show all work.

5) 9 km, 12 km, 15 km

Yes

6) 5 mi, 12 mi, 13 mi

Yes

7) 4.8 in, 14 in, 14.8 in

Yes

8) 16 cm, 16.8 cm, 24 cm

No

9) 11 cm, 60 cm, 61 cm

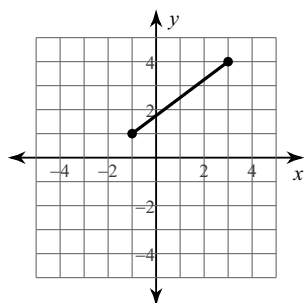
Yes

10) 19.5 in, 40 in, 44.2 in

No

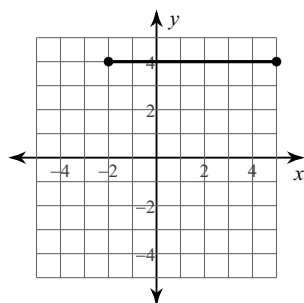
Use the Pythagorean Theorem to find the distance between each pair of points. Write the answer in the exact form and decimal form. Round your answer to the nearest hundredth, if necessary.

11)



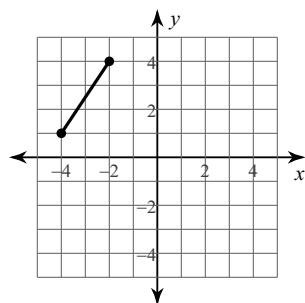
5

12)



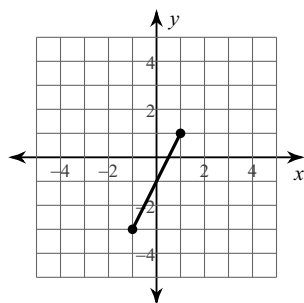
7

13)



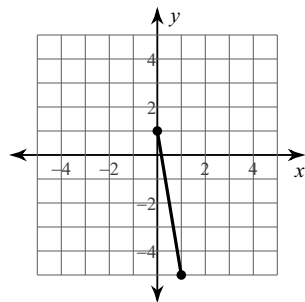
3.6

14)



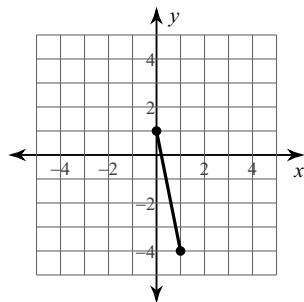
4.5

15)



6.1

16)



5.1