AMDG

Name:_____ Date _____

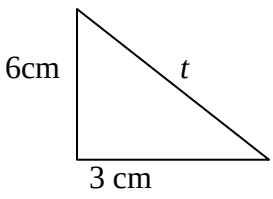
Ms. Kresovic's Geometry period _____

Extra Practice with the Pythagorean Theorem

Find the EXACT length of the missing side in the following examples.

Show all work (here or on a separate piece of loose leaf)!

1.



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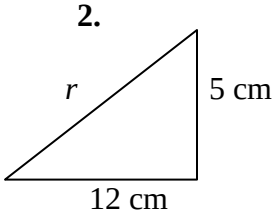

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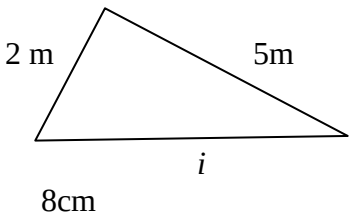

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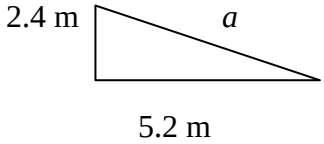

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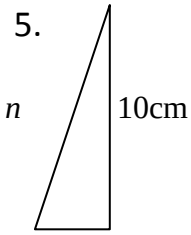

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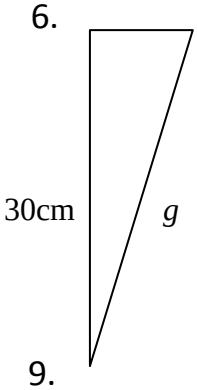

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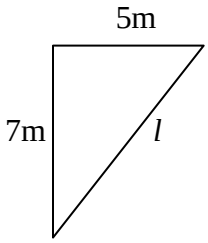

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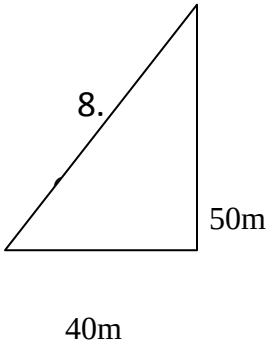

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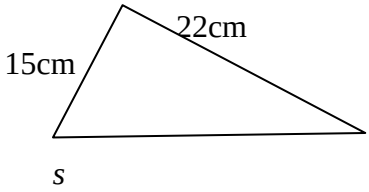

What is the EXACT length of the hypotenuse, c, of the following right angle triangles? **Show all work!**

10. a = 3 ; b = 4 ; c = ?

11. a = 6 ; b = 8 ; c = ?

12. a = 12 ; b = 5 ; c = ?

13. a = 9 ; b = 12 ; c = ?

14. a = 15 ; b = 20 ; c = ?

15. a = 8 ; b = 10 ; c = ?

16. a = 15 ; b = 17 ; c = ?

17. a = 40 ; b = 50 ; c = ?

18. a = 4 ; b = 2 ; c = ?

19. a = 1.2 ; b = 3.5; c = ?

20. A ladder is leaning against the side of a 10m house. If the base of the ladder is 3m away from the house, how tall is the ladder? **Please draw a diagram and show all work**.

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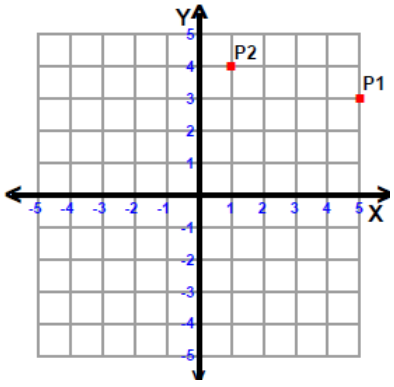
Find the exact distance between the given points.

21.



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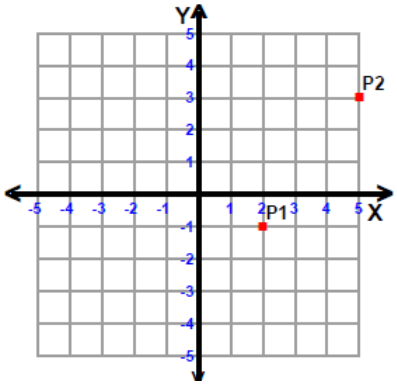

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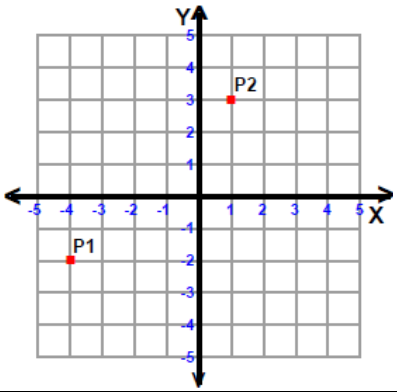

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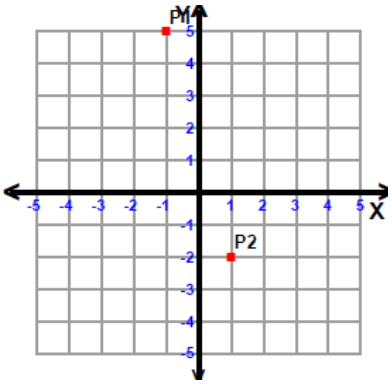

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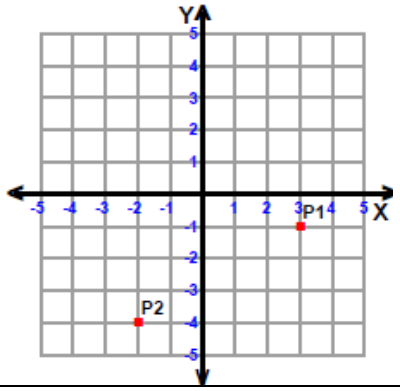

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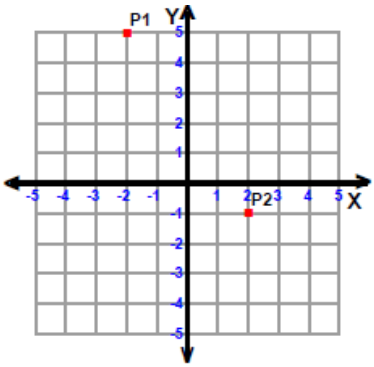

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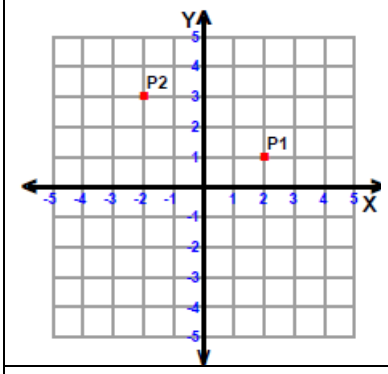

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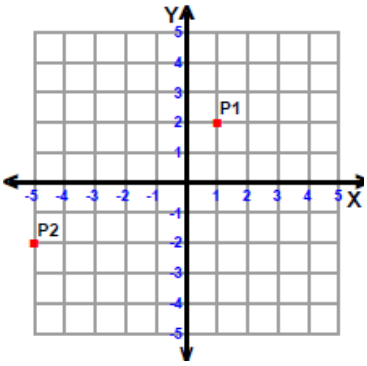

29. $P_1=(-5, 10)$, $P_2=(-12, 9)$

30. $P_1=(8, 4)$, $P_2=(5, 5)$

31. $P_1=(5, 8)$, $P_2=(-3, 1)$

32. $P_1=(10, -1)$, $P_2=(10, -8)$