Name _____ Class _____ Date _____

Practice 11-2

The Pythagorean Theorem

Can you form a right triangle with the three lengths given? Show your work.

1. 20, 21, 29 _____

2. 7, 11, 12 _____

3. $10, 2\sqrt{11}, 12$ _____

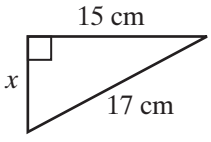
4. 28, 45, 53 _____

5. $9, \sqrt{10}, 10$ _____

6. 10, 15, 20 _____

Find each missing length to the nearest tenth of a unit.

7.



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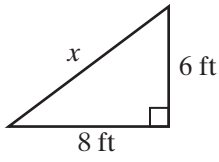
8.



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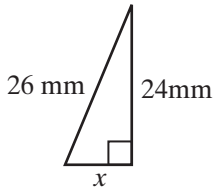

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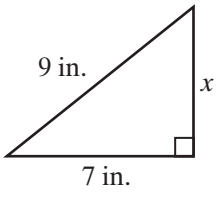
10.



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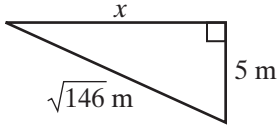
11.



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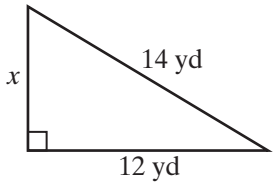
12.



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Use the triangle at the right. Find the missing length to the nearest tenth of a unit.

13. $a = 6$ m, $b = 9$ m

$c \approx$ _____

14. $a = 19$ in., $c = 35$ in.

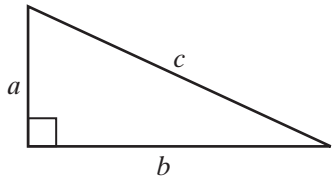
$b \approx$ _____

15. $b = 24$ cm, $c = 32$ cm

$a \approx$ _____

16. $a = 14$ ft, $c = 41$ ft

$b \approx$ _____



17. A rectangular park measures 300 ft by 400 ft. A sidewalk runs diagonally from one corner to the opposite corner. Find the length of the sidewalk.

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