

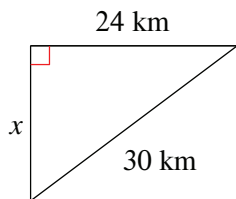
WS 8-2 Pythagorean Theorem

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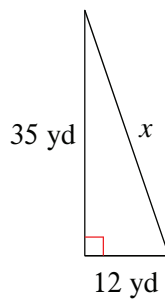
Date _____ Period _____

Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

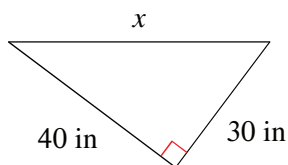
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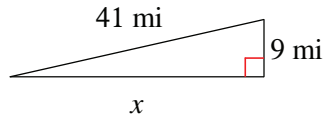
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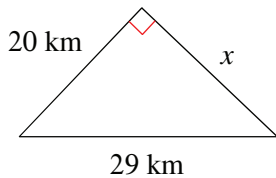
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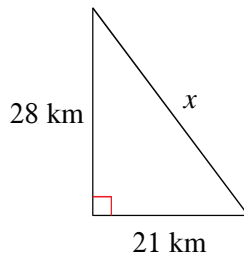
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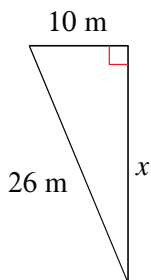
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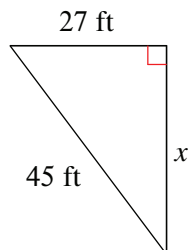
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7)

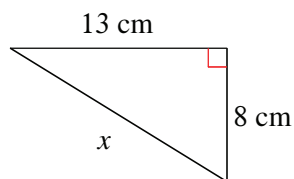


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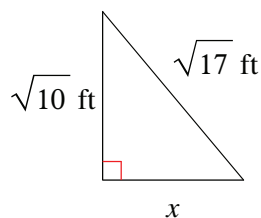


Find the missing side of each triangle. Leave your answers in simplest radical form.

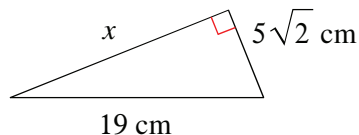
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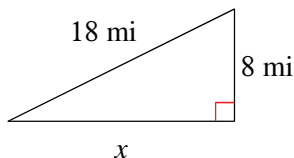
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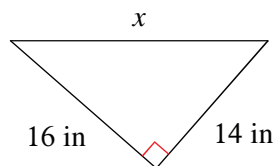
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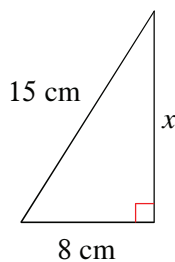
12)



13)



14)



Find the missing side of each right triangle. Side c is the hypotenuse. Sides a and b are the legs. Leave your answers in simplest radical form.

15) $a = 9$ yd, $c = 13$ yd

16) $b = 17$ km, $c = 18$ km

17) $a = 3$ mi, $c = \sqrt{11}$ mi

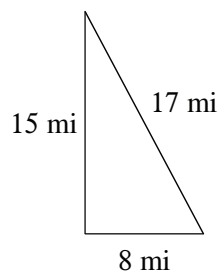
18) $a = 13$ km, $b = \sqrt{145}$ km

19) $b = 3$ yd, $c = 3\sqrt{2}$ yd

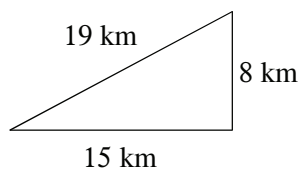
20) $b = 7$ m, $c = 17$ m

State if each triangle is a right triangle.

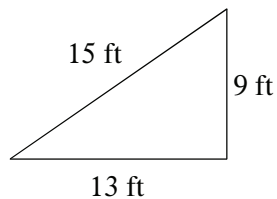
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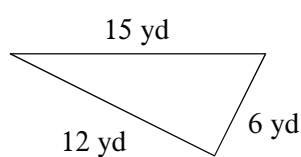
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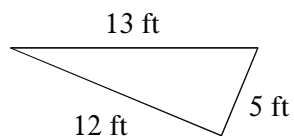
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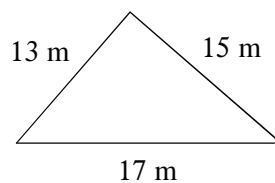
24)



25)



26)



State if the three sides lengths form a right triangle.

27) $\sqrt{178}$ m, $\sqrt{145}$ m, 18 m

28) 7 cm, 5 cm, $\sqrt{73}$ cm

29) 6 cm, 17 cm, $5\sqrt{13}$ cm

30) 13 in, $\sqrt{235}$ in, 20 in

31) 7 ft, $5\sqrt{2}$ ft, $3\sqrt{11}$ ft

32) 5 ft, 10 ft, $5\sqrt{5}$ ft