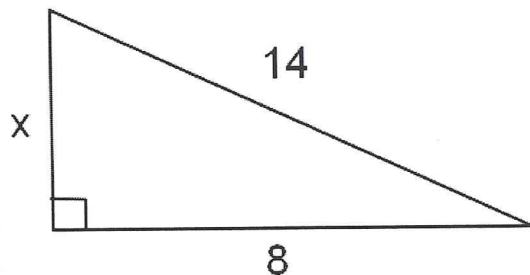
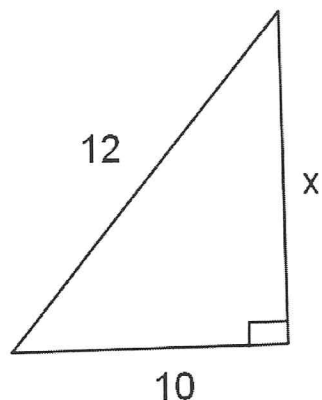


1. Find the missing side to the nearest hundredth.

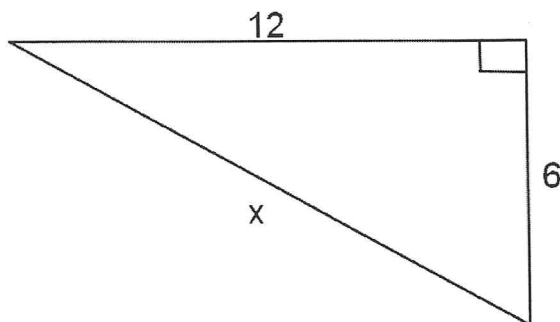


2. Find the missing side. Give answer in simplified radical form.

a)



b)



3. Do these three numbers form a right triangle? $15, 18, 33$

4. Are these three numbers a Pythagorean Triple? $13, 84, 85$

5. Two sides of a right triangle are given. The third side is a Whole Number. Find the third side.

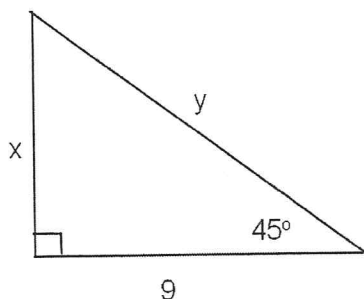
a) $56, 65, \underline{\hspace{1cm}}$ b) $28, 45, \underline{\hspace{1cm}}$

6. Is each triangle Right, Acute, or Obtuse?

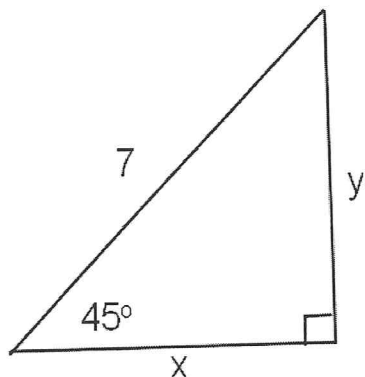
a) $16, 21, 27$ b) $40, 41, 52$ c) $14, 48, 50$

For 7 to 12, find the value of each variable. Give answer in simplified radical form. Make sure you rationalize all denominators and reduce all fractions.

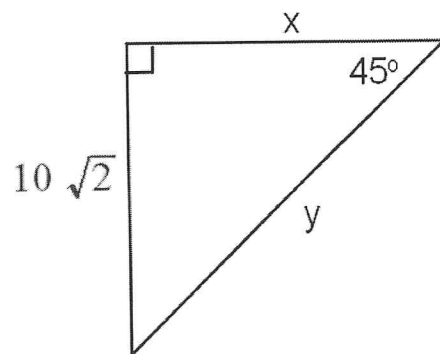
7.



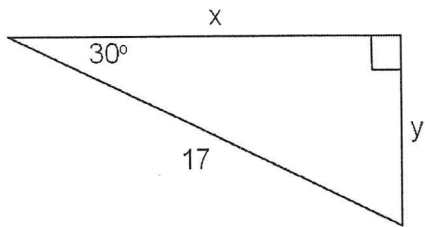
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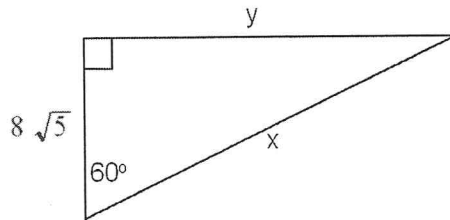
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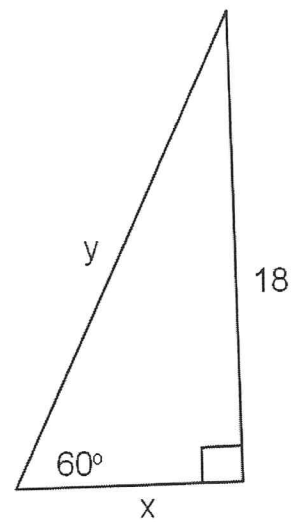
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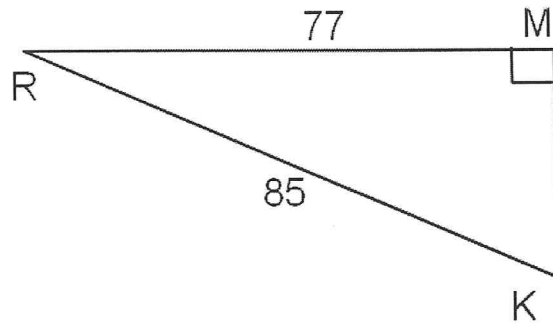
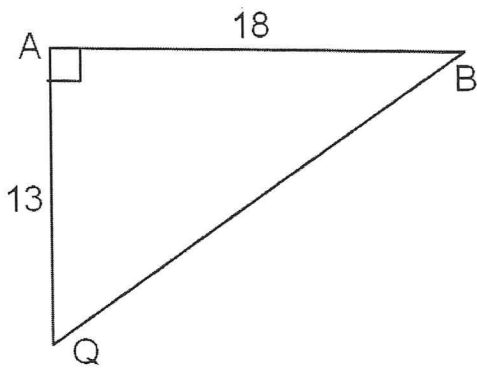
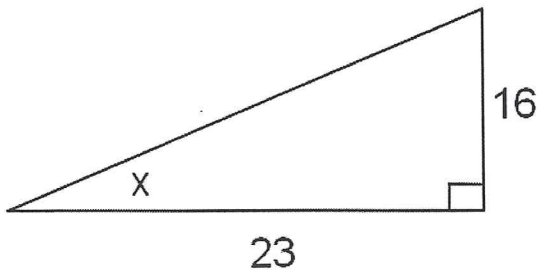
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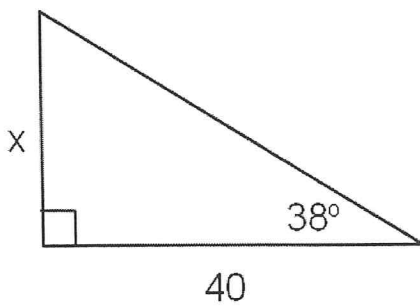
12.



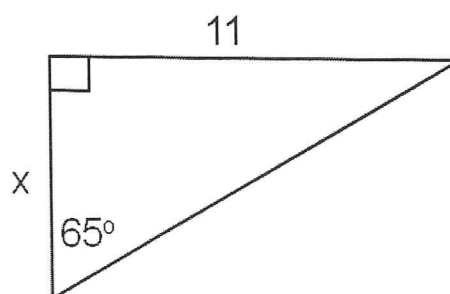
13. Write each as a ratio. No need to reduce

a) $\tan B =$ $\tan Q =$ b) $\tan R =$ $\tan K =$ 14. Find the value of x to the nearest hundredth.15. Find the value of x to the nearest tenth.

a)



b)



Geometry

Review Quiz Sec 8-1 to 8-3

ANSWERS

Spring 2014

1. $x = 11.49$

2. a) $x = 2\sqrt{11}$ b) $x = 6\sqrt{5}$

3. No 4. Yes

5. a) 33

b) 53

6. a) Obtuse b) Acute c) Right

7. $x = 9$ $y = 9\sqrt{2}$

8. $x = \frac{7\sqrt{2}}{2}$ $y = \frac{7\sqrt{2}}{2}$

9. $x = 10\sqrt{2}$ $y = 20$

10. $x = \frac{17}{2}$ $y = \frac{17\sqrt{3}}{2}$

11. $x = 16\sqrt{5}$ $y = 8\sqrt{15}$

12. $x = 6\sqrt{3}$ $y = 12\sqrt{3}$

13. a) $\tan B = \frac{13}{18}$

$\tan Q = \frac{18}{13}$

b) $\tan R = \frac{36}{77}$

$\tan K = \frac{77}{36}$

14. $x = 34.82^\circ$

15. a) $x = 31.3$

b) $x = 5.1$

Geometry

Review Quiz Sec 8-1 to 8-3

ANSWERS

Spring 2014

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