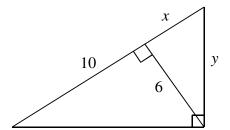
Geometry Ch. 8 Practice Test

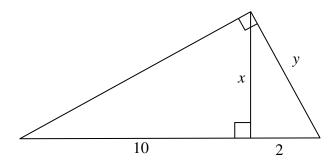
1. Find the geometric mean between 8 and 12. Leave your answer in simplified square root form.

2. Find the geometric mean between 3 and 10. Leave your answer in simplified square root form.

3. Solve for *x* and *y*. Leave your answers in simplified square root form.

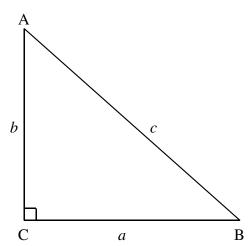


4. Solve for *x* and *y*. Leave your answers in simplified square root form.



$\underline{\text{Use } \Delta ABC \text{ for problems 5-6. Leave your answers in simplified square root form.}}$

5. a = 12, b = 8. Find c.

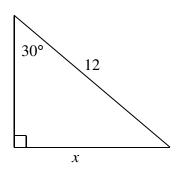


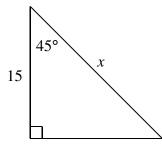
6. b = 7, c = 24. Find a.

7. Determine if ΔXYZ is a right triangle if x = 41, y = 40, z = 9.

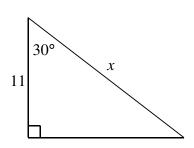
8. Determine if ΔXYZ is a right triangle if $x = \sqrt{40}$, y = 20, z = 21.

For problems 9-12 find the EXACT value of x using 45-45-90 rules or 30-60-90 rules.

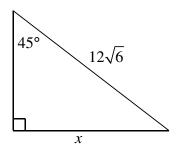




11.



12.



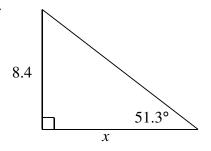
Make a sketch for problems 13-14. Leave your answers in simplified square root form.

| 13 | The 1 | nerimeter | of an | equilateral | triangle 39 | cm) | Find the | length c | f the al | titude |
|-----|-------|-----------|-------|--------------|-------------|-------|------------|----------|----------|--------|
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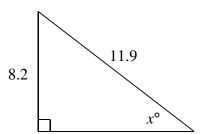
14. The length of a diagonal of a square is $17\sqrt{2}$ in. Find the perimeter of the square.

For problems 15-18, Find x. Round angle measures and side lengths to the nearest tenth.

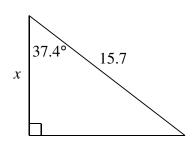
15.



16.



17.



18.

