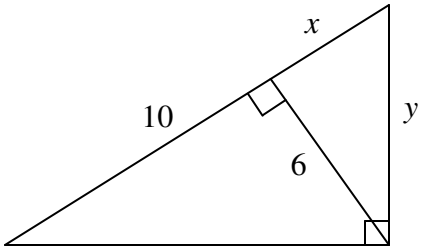
Geometry Ch. 8 Practice Test Part 1
Sections 8.1 – 8.3

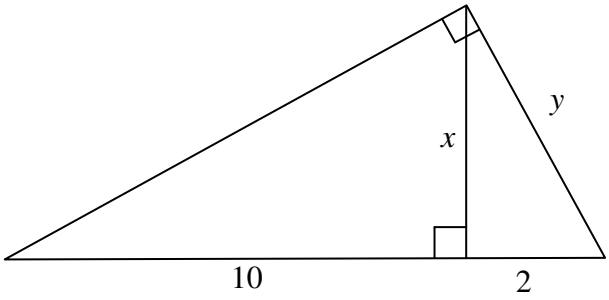
1. Find the geometric mean between 8 and 12. **Leave your answer in simplified square root form.**

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.**

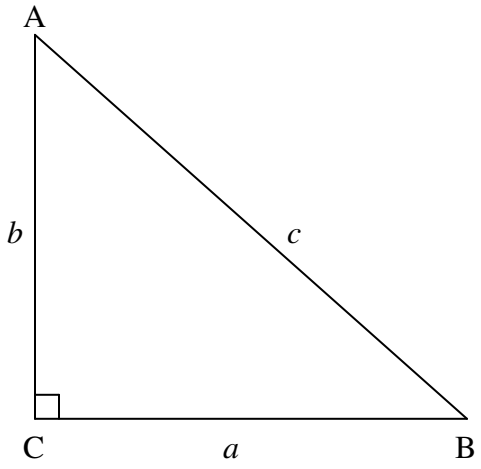


4. Solve for x and y. **Leave your answers in simplified square root form.**



Use ΔABC for questions 5-6. Leave your answers in simplified square root form.

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



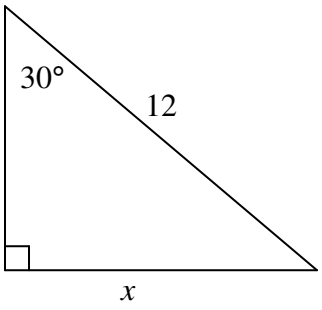
6. $b = 7$, $c = 24$. Find a.

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

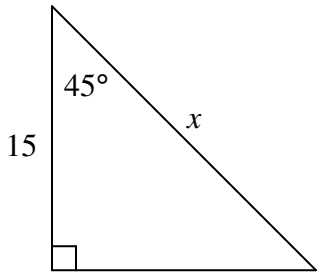
8. Determine if ΔXYZ is a right triangle if $x = \sqrt{40}$, $y = 20$, $z = 21$.

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

9.



10.



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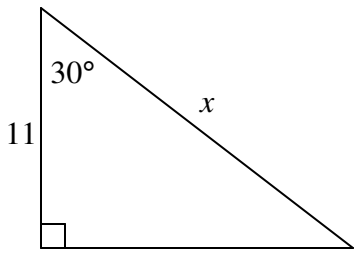
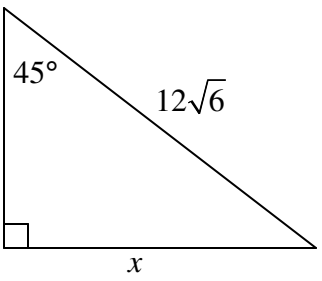


12.



13. The perimeter of an equilateral triangle 39 cm. Find the length of the altitude.

14. The length of a diagonal of a square is $17\sqrt{2}$ in. Find the perimeter of the square.