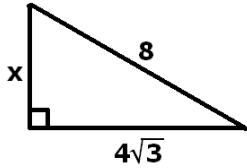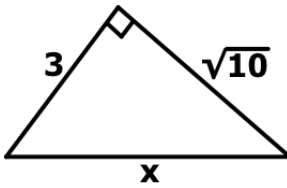# Honors Math 2
Pythagorean Theorem
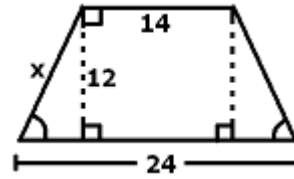
Find the value of x.
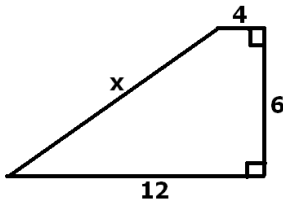

1. x = _____

2. x = _____

3. x = _____

4. x = _____
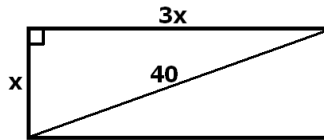
5. x = _____
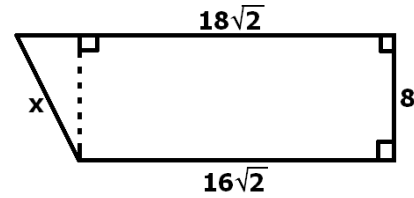
6. x = _____
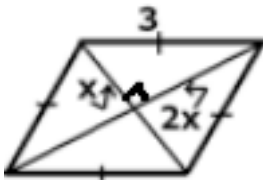
7. x = _____
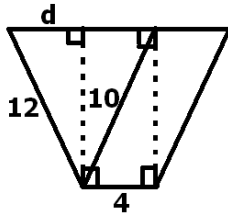
8. x = _____

Find the value of each variable.
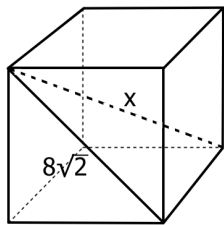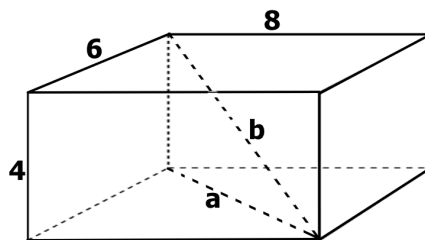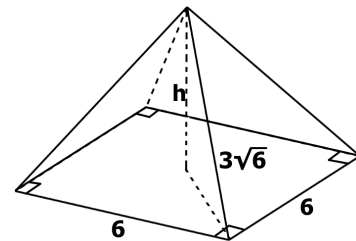

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9. x = _____

10. a = _____

b = _____

11. h = _____

12. The base of an isosceles triangle is 2x cm long. The altitude to the base is 3x cm long. Find the length of one other side of the triangle.

13. Find the perimeter of a rectangle that has diagonal length eight and a side of length five.

14. A 6-ft ladder is placed against a wall with its base 2 ft from the wall. How high above the ground is the top of the ladder?

15. A person travels 8 mi due north, 3 mi due west, 7 mi due north, and 11 mil due east. How far is the person from the starting point?