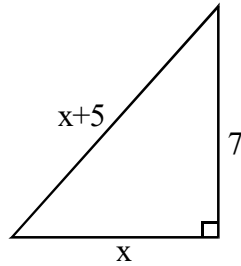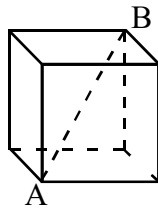# Pythagorean Review

Answer each:
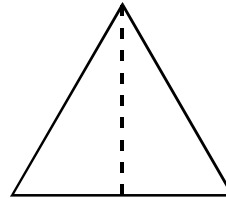
6. Solve for x:

x+5

7

x

6. _____
(leave as a simplified fraction)

7. A cube has two-inch edges. What is the distance between opposite corners A
and B of the cube? (leave in radical form)

B

A

7. _____

8. An equilateral triangle has 8-inch sides.
What is the height of the triangle?
(leave in radical form)

8. _____

9. The short leg of a right triangle is x inches long, and the hypotenuse of the
triangle is 2x inches. How long is the longer leg (in terms of x, leave in
radical form)?

9. _____

Challenge. A rectangle is nine inches longer than it is wide, and its diagonal is
10 inches longer than its width. What is the width of the quadrilateral?
(Round to the hundredth, or, even better ... leave in radical form).

C. _____