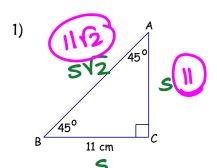
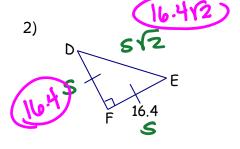
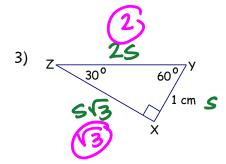
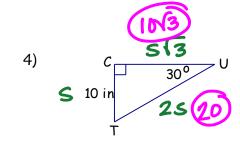
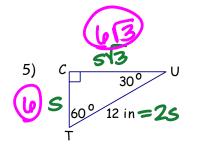
For numbers 1-10, find the lengths of the missing sides of the triangle. Leave simplest radical form.

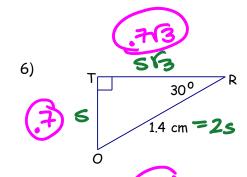


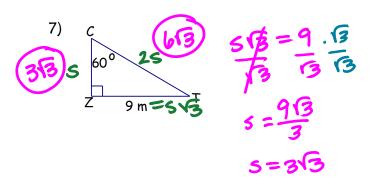


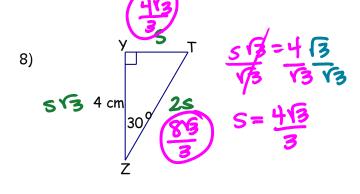


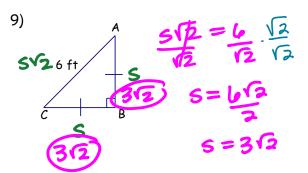


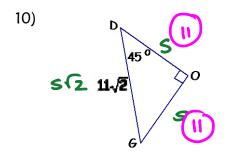


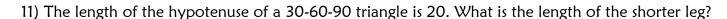


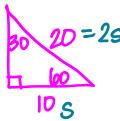






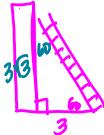




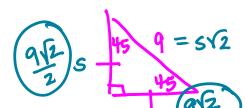




12) A ladder leaning against a wall makes a 60 angle with the ground. The base of the ladder is 3 m from the building. How high above the ground is the top of the ladder?



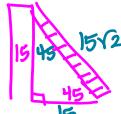
13) The length of the hypotenuse of an isosceles right triangle is 9. What is the length of the legs?



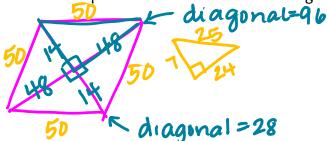
$$S\sqrt{2} = 9$$

$$S = 9\sqrt{2}$$

14) A ladder leaning against a wall makes a 45 degree angle with the ground. If the ladder reaches the wall at 15 feet, then how long is the ladder?



15) Find the area and perimeter of rhombus with diagonals of 28 and 96.

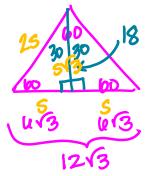


$$P = 4(50)$$

 $P = 200$

$$A = \frac{4}{2} + \frac{6}{2} + \frac{6}{2} + \frac{18.14}{2} = 1.344$$

16) The altitude of an equilateral triangle is 18. Find the area of the triangle.



$$A = b \cdot h$$

= 12\f3 \cdot 18

Study 5.7 and 5.8 for tomorrow's quiz! ©