Section 7.3 – Special Right Triangles



For a $45^{\circ}-45^{\circ}-90^{\circ}$ triangle, the leg times _____ is equal to the hypotenuse.

For a $30^{\circ}-60^{\circ}-90^{\circ}$ triangle, the short leg times _____ is equal to the long leg.

For a $30^{\circ}-60^{\circ}-90^{\circ}$ triangle, the short leg times _____ is equal to the hypotenuse.

Ex 1:







Getting a fraction to NOT have a denominator that is a radical is called





c) The altitude (height) of an equilateral triangle is 9 cm. Find the length of a side of the triangle.

Ex 5:

Ex 4:

- a) The perimeter of a square is 28 inches.Find the length of the diagonal.
- **b**) The diagonal of a square is 6 meters. Find the area of the square.