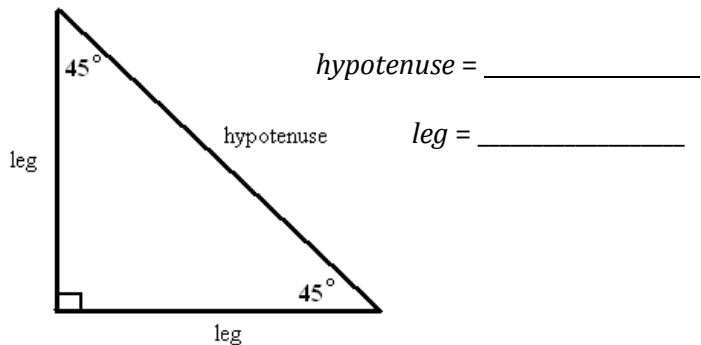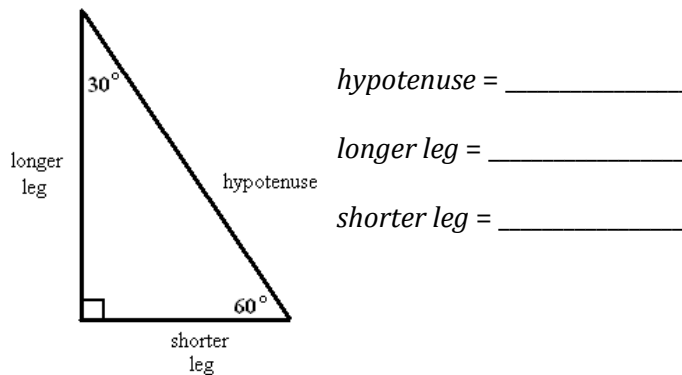# Guided Notes Special Right Triangles

There are two types of "special" right triangles. The "special" nature of these triangles is their ability to yield exact answers instead of decimal approximations when dealing with trigonometric functions.
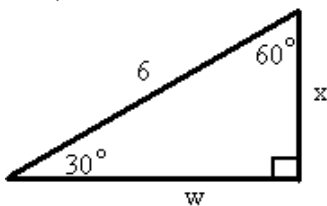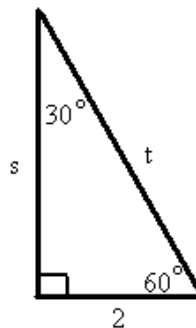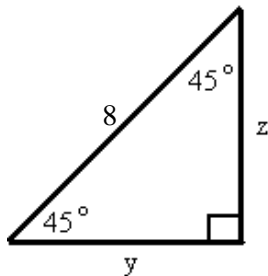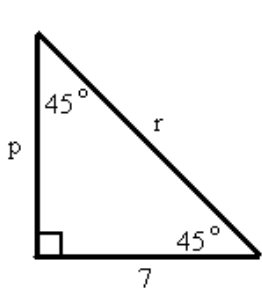
45°-45°-90° Triangles

45°

hypotenuse

leg

45°

leg

hypotenuse = _____

leg = _____

30°-60°-90° Triangles

30°

longer
leg

hypotenuse

60°

shorter
leg

hypotenuse = _____

longer leg = _____

shorter leg = _____

Examples: Find the value of the variables.

45°
p
r
45°
7

45°
8
z
45°
y

30°
s
t
60°
2

6
60°
x
30°
w

$p =$ _____ $r =$ _____ $y =$ _____ $z =$ _____ $s =$ _____ $t =$ _____ $x =$ _____ $w =$ _____

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Guided Notes Special Right Triangles

Find the value of each variable. Leave your answers in simplest radical form.

1.

2.

3.

4.

5.

6.

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