Reference triangles (top):
x, $60°$, $2x$, $30°$, $x\sqrt{3}$

x, 45, $x\sqrt{2}$, 45, x
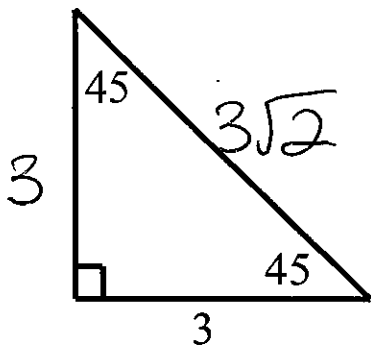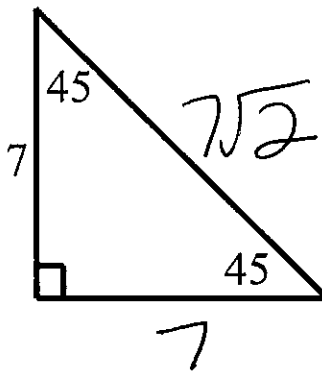
Special Right Triangles

Fill in the two missing sides of each of the following triangles.
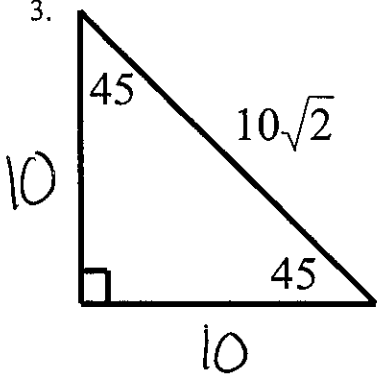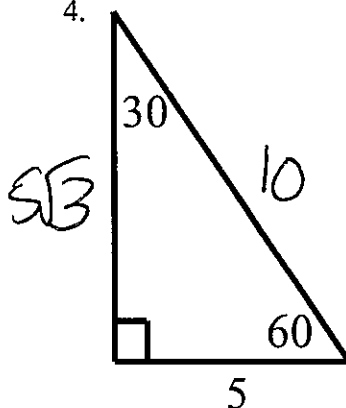
45,45,90
- The legs are the same
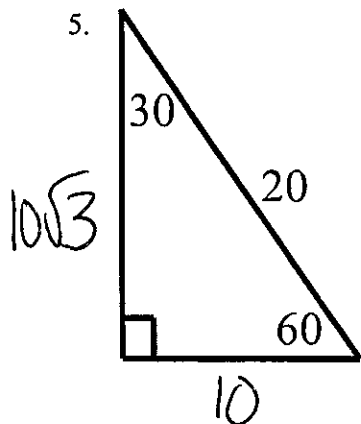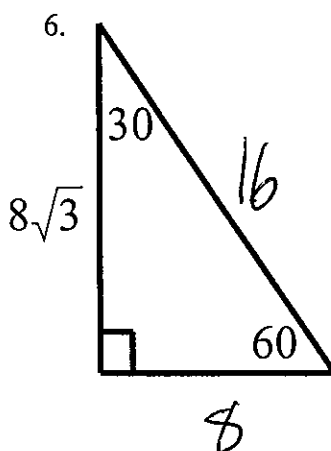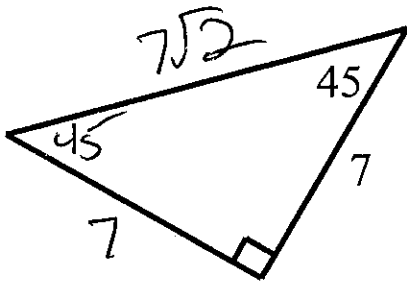- The hypotenuse is the same as the legs with a $\sqrt{2}$ at the end
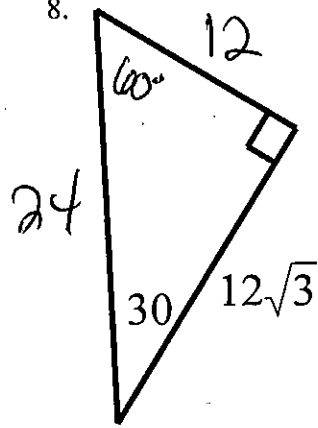
30,60,90
- The hypotenuse is double the small leg
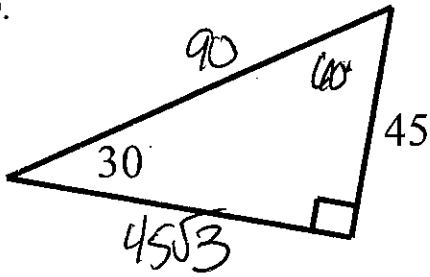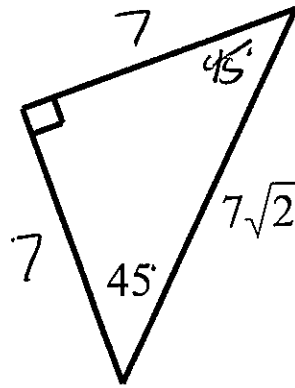- The large leg is the small leg with a $\sqrt{3}$ at the end

1.
45
3
$3\sqrt{2}$
45
3

2.
45
7
$7\sqrt{2}$
45
7

3.
45
10
$10\sqrt{2}$
45
10

4.
30
$5\sqrt{3}$
10
60
5

5.
30
$10\sqrt{3}$
20
60
10

6.
30
$8\sqrt{3}$
16
60
8

7.

$7\sqrt{2}$

45

45

7

7

8.

12

60°

24

30

$12\sqrt{3}$

9.

90

60°

30

45

$45\sqrt{3}$

10.

7

45°

7

45°

$7\sqrt{2}$

11.

45°

$13\sqrt{2}$

13

45°

13

12.

7.5

60°

$7.5\sqrt{3}$

15

30°