7.4 Special Right Triangles

Rules for Radicals ____

No ______ factors in the radical.
• EX:

> 2) No ______ in the _____.
• EX:

3) Radicals can be _____.
• EX:



$1. \quad 6\sqrt{2} \cdot \sqrt{2}$

2. $\frac{6}{\sqrt{3}}$ 3. $\frac{5}{\sqrt{2}}$

45°-45°-90° Triangles

- Have two _____ and one
- The two _____ are _____
- Equation to Use:



EX: Find the hypotenuse.

8 45°

а.



EX: Find the legs.



EX:



A 50 cm

C 25 cm



25 cm

W

GUIDED PRACTICE for Examples 1, 2, and 3

Find the value of the variable.



30°-60°-90° Triangles

- Have angles of _____.
- Short side _____ from the _____
- Long side _____ from the _____
- Equations to Use:



EX: Find x and y.



EX: Find x.



EX: Find h.





5. Find *x*, *y* and *z*.

