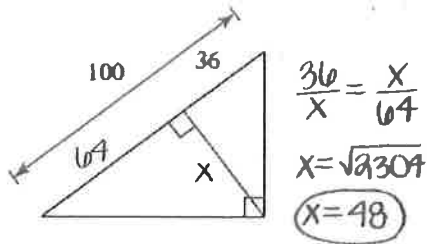


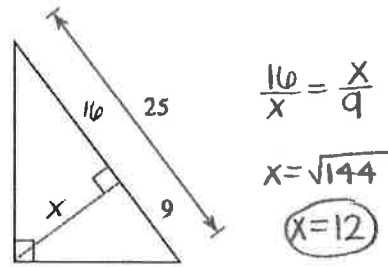
Geometry
RIGHT TRIANGLES STUDY GUIDE

Geometric Mean: Find the length of each altitude. Leave your answer in simplest radical form.

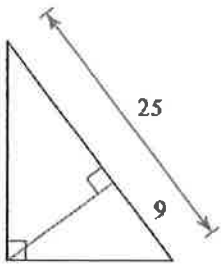
1)



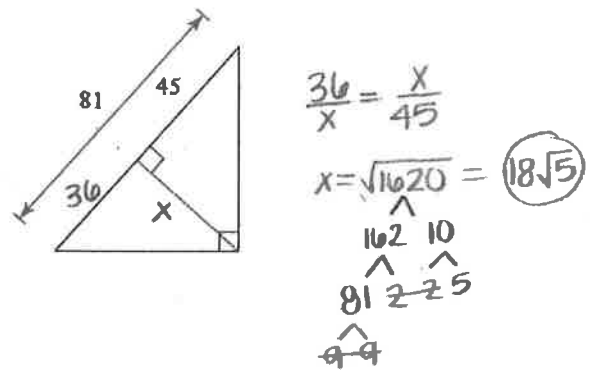
2)



3)

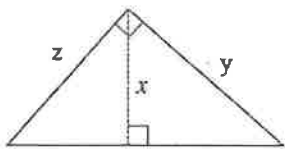


4)



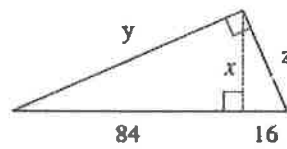
Find the length of each missing segment. Round your answers to the nearest tenth.

5)



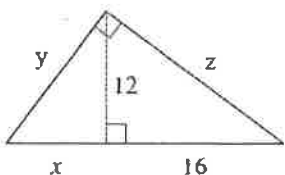
$x = \sqrt{63} \quad x \approx 7.9$
 $y = \sqrt{143.41} \quad y \approx 12.0 \quad y = \sqrt{144} = 12$
 $z = \sqrt{111.41} \quad z \approx 10.6 \quad z = \sqrt{112} = 4\sqrt{7}$

6)



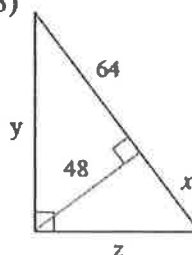
$x = 8\sqrt{21}$
 $x = \sqrt{1344} \quad x \approx 36.7$
 $y = \sqrt{8402.89} \quad y \approx 91.7$
 $z = \sqrt{1602.89} \quad z \approx 40.0$
 $y = \sqrt{8400} = 20\sqrt{21}$
 $z = \sqrt{1600} = 40$

7)



$\frac{x}{12} = \frac{12}{16} \quad x = 9 \quad y = 15$
 $z = 20$

8)



$\frac{x}{48} = \frac{48}{64} \quad x = 36$
 $y = 80$
 $z = 60$

$$6\sqrt{2} = \text{Leg } \sqrt{2}$$

$$\text{Leg} = \frac{6}{\sqrt{2}}$$

Name: _____

Practice Worksheet
Special Right Triangles

Find x and y in each right triangle:

