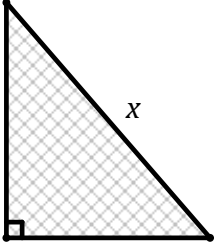
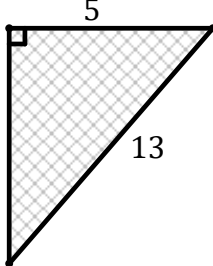
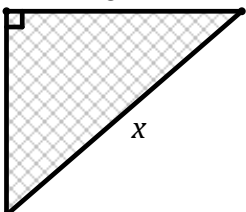


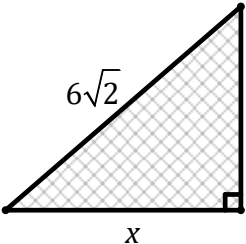
Name: \_\_\_\_\_

Find the indicated side:

1)   $3^2 + 4^2 = x^2$   
 $x = 5$

2)   $x^2 + 5^2 = 13^2$   
 $x = 12$

3)   $6^2 + 10^2 = x^2$   
 $136 = x^2$   
 $x = \sqrt{136}$   
 $x = 2\sqrt{34}$

4)   $x^2 + 6^2 = (6\sqrt{2})^2$   
 $x^2 + 36 = 36(2)$   
 $x^2 = 36$   
 $x = 6$

**CHALLENGE! Solve. Be sure to check for extraneous solutions.**

5)  $-80 = 1 - 9\sqrt{1 - 20m}$   
 $-81 = -9\sqrt{1 - 20m}$   
 $9 = \sqrt{1 - 20m}$   
 $81 = 1 - 20m$   
 $80 = -20m$   
 $-4 = m$

6)  $v = \sqrt{11v - 30}$  (Need to factor here!)  
 $v^2 = 11v - 30$   
 $v^2 - 11v + 30 = 0$   
 $(v - 6)(v - 5) = 0$   
 $v = 6$  or  $v = 5$