

Review Worksheet-Test over Factoring, Radicals, Sections 7.1,2,3,4,5,6, 10.7

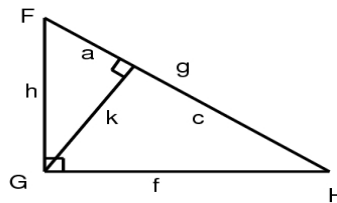
Give the simplified answer to each of the following.

- 1)  $\sqrt{99}$       2)  $\sqrt{56}$       3)  $7\sqrt{24}$       4)  $\frac{8}{\sqrt{2}}$       5)  $\sqrt{18} + \sqrt{72}$
- 6)  $4\sqrt{3} \cdot 9\sqrt{3}$       7)  $5\sqrt{3} + 3\sqrt{3}$

Find the Geometric mean between the following two numbers.

- 8) 7 and 10      9) 3 and 12

Use the following picture to answer questions 10 - 13.



- 10) If  $a = 6$  and  $c = 8$ , find  $k$ .
- 11) If  $h = 12$  and  $a = 9$ , find  $g$ .
- 12) If  $a = 5$  and  $c = 10$ , find  $f$ .
- 13) In a right triangle, the hypotenuse is 17 and the short leg is 8, find the other leg?
- 14) In a right triangle, the legs are 14 and 8, find the length of the hypotenuse.
- 15) Can the lengths of 24, 32, and 40 make a right triangle?