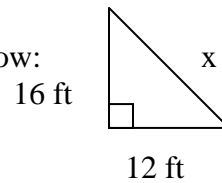


Northwest-Shoals Community College
Mathematics, Science, and Technology Division
MTH 100 Practice Test Quadratics

1. Find the measure of the missing side of the right triangle below:



Solve the following equations:

2. $\sqrt[3]{2x-2} + 4 = 2$

3. $(r-2)^2 + 28 = 0$

4. $2x^2 - x = 3$

5. $2x^2 = 10$

6. $t^2 - t = 7$

7. $x^2 + 13 = 2x$

8. Find the dimensions of a rug whose perimeter is 28 feet and area is 48 sq.feet.
9. The velocity of an object in ft/sec is given by $V = \sqrt{64d}$.
Find the distance the object has traveled given a velocity of 192 ft/sec.
10. Kim and Cassidy leave a campsite, Kim biking due north and Cassidy biking due east. Kim bikes 7 km/h slower than Cassidy. After four hours, they are 68 km apart. Using a quadratic equation, find the speed of each bicyclist.