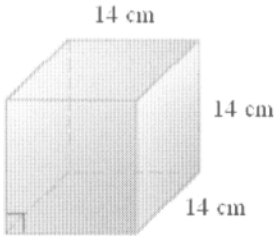
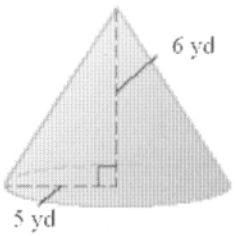
Student: _____	**Instructor:** courtney trabue	**Assignment:** MAT 097 Volume (6.5)
Date: _____	**Course:** GMC LSS Mathematics	
Time: _____	**Book:** Martin-Gay: Developmental Mathematics	

1. Find the volume of the solid.



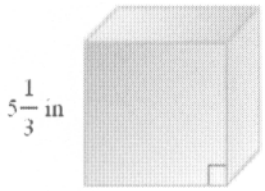
The volume is ☐ cu cm.

2. Find the volume of the solid. Use $\frac{22}{7}$ for π.



The volume of the solid is approximately ☐ cu yd. (Type an integer, a fraction, or a mixed number.)

3. Find the volume of a cube with edges of $5\frac{1}{3}$ inches.



The volume is ☐ cu in.
(Simplify your answer.)

4. Find the volume of a rectangular box 2.3 ft by 2.5 ft by 1.5 ft.

The volume of the rectangular box is ☐ cu ft. (Type answer in decimal form.)

5. Find the exact volume of a sphere with a radius of 11 inches.

The exact volume of the sphere is ☐ cu in. (Type an exact answer in terms of π.)

6. Find the volume of a rectangular block of ice $2\frac{1}{2}$ feet by 3 feet by $\frac{1}{2}$ feet.

The volume of the rectangular block of ice is ☐ cu ft. (Type a simplified fraction.)

Student: _____	**Instructor:** courtney trabue	**Assignment:** MAT 097 Square Roots & Pythagorean Theorem (6.6)
Date: _____	**Course:** GMC LSS Mathematics	
Time: _____	**Book:** Martin-Gay: Developmental Mathematics	

1. Find the square root.

$$\sqrt{\frac{1}{9}}$$

$\sqrt{\frac{1}{9}} =$ ☐ (Type an integer or a simplified fraction.)

2. Find the square root.

$$\sqrt{\frac{16}{36}}$$

$\sqrt{\frac{16}{36}} =$ ☐ (Type an integer or a simplified fraction.)

3. Find the square root.

$\sqrt{15}$

The answer is ☐.
(Round to the nearest thousandth as needed.)

4. Find the square root.

$\sqrt{45}$

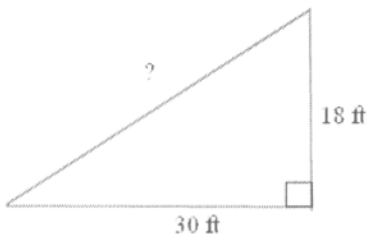
The answer is ☐.
(Round to the nearest thousandth as needed.)

5. Find the square root.

$\sqrt{196}$

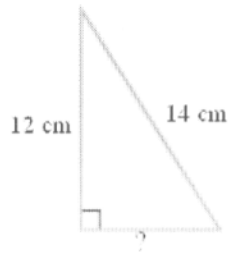
$\sqrt{196} =$ ☐

6. Find the unknown length in the right triangle.



The unknown length is approximately ☐ feet.
(Round to the nearest thousandth as needed.)

7. Find the unknown length in the right triangle.



The unknown length is approximately ☐ centimeters.
(Round to the nearest thousandth as needed.)

8. Sketch the triangle and find the length of the side not given.

leg = 30, hypotenuse = 50

The unknown length is ☐. (Round to the nearest thousandth as needed.)

9. Sketch the triangle and find the length of the side not given.

leg = 33, leg = 33

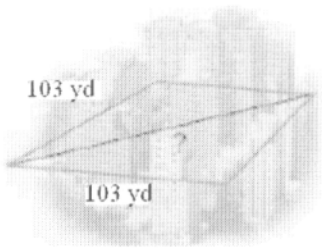
The unknown length is approximately ☐.
(Round to the nearest thousandth as needed.)

10. Sketch the triangle and find the length of the side not given.

hypotenuse = 6, leg = 5

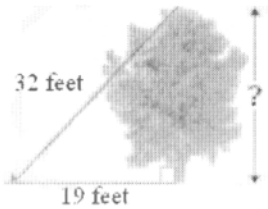
The unknown length is approximately ☐.
(Round to the nearest thousandth as needed.)

11. A city block is a square with each side measuring 103 yards. Find the length of the diagonal of the city block.



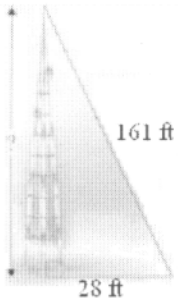
The length of the diagonal is approximately ☐ yards.
(Round to the nearest hundredth as needed.)

12. Find the height of the tree shown to the right.



The height of the tree is approximately ☐ feet.
(Round to the nearest tenth as needed.)

13. Find the height of the antenna shown to the right.



The height of the antenna is approximately ☐ feet.
(Round to the nearest tenth as needed.)