

# **CHAPTER 12, 7.5 & 8.1-8.2**

## **REVIEW**

# **Today's Tasks**

- ☐ **Review Test Topics**
- ☐ **Practice Problems**
- ☐ **Test and Quiz Corrections**
- ☐ **Start, complete, and correct tonight's homework**

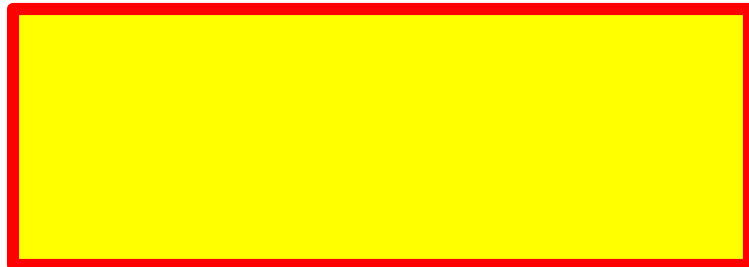
## 8.2 Volume of Cones

You should be able to...

- ☐ find the volume of cones.
- ☐ find the heights of cones given the volumes.
- ☐ solve real-life problems involving objects that are shaped like cones.

$$\frac{1}{3}$$

*Formula:*



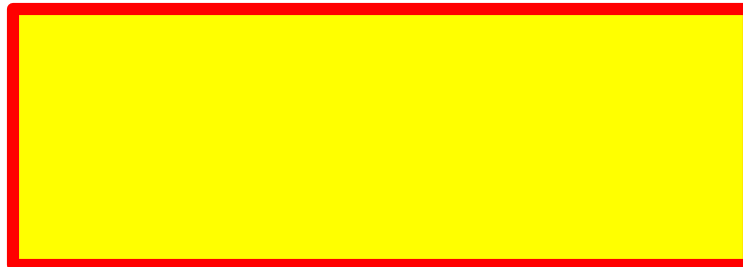
# 8.1 Volume of Cylinders

You should be able to...

- ☐ find the volume of cylinders.
- ☐ find the heights of cylinders given the volumes.
- ☐ solve real-life problems involving objects that are shaped like cylinders.

$\frac{1}{3}$

*Formula:*



## **12.5 Scale Drawings**

**You should be able to...**

- ☐ use scale drawings to find actual distances.**
- ☐ find scale factors.**
- ☐ use drawings to find actual perimeters and areas.**
- ☐ recreate scale drawings at a different scale.**

*Vocabulary:*

- scale drawing
- scale model
- scale
- scale factor

# 12.4 Quadrilaterals

You should be able to...

- ☐ classify a quadrilateral based on its properties.
- ☐ understand that the sum of the angle measures in any quadrilateral is  $360^\circ$ .
- ☐ find missing angle measures in quadrilaterals.
- ☐ construct a quadrilateral given the type, angle measures, and /or side lengths.

*Vocabulary:*

- *quadrilateral, trapezoid, kite, parallelogram, rectangle, rhombus, square*

*Key Idea:*

- *Sum of the Angle Measures in a Quadrilateral*

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*Vocabulary:*

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*Key Idea:*

- *Sum of the Angle Measures in a Quadrilateral*

## **7.5 Using the Pythagorean Theorem**

**You should be able to...**

- ☐ use the converse of the Pythagorean Theorem to identify right triangles.**
- ☐ use the Pythagorean Theorem to find distance in a coordinate plane.**
- ☐ solve real-life problems.**

*Key Concepts:*

- Converse of the Pythagorean Theorem
- Distance Formula



## 12.3 Triangles

You should be able to...

- ☐ **classify triangles using angles and sides.**
- ☐ **construct triangles with given angle measures.**
- ☐ **construct triangles with given side lengths.**

*Vocabulary:*

- acute triangle, obtuse triangle, right triangle, equiangular triangle
- scalene triangle, isosceles triangle, equilateral triangle

# 12.2 Complementary & Supplementary Angles

**You should be able to...**

- ☐ **classify pairs of angles as complementary, supplementary, or neither.**
- ☐ **find angle measures using complementary or supplementary angles.**

*Vocabulary:*

- complementary angles
- supplementary angles

# 12.1 Adjacent & Vertical Angles

You should be able to...

- ☐ identify adjacent and vertical angles.
- ☐ find angle measures using adjacent and vertical angles.
- ☐ draw an angle with a certain measure using a protractor.

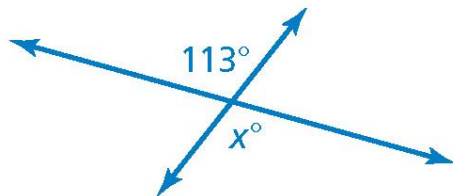
*Vocabulary:*

- adjacent angles
- vertical angles

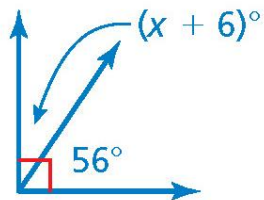
# Practice

Tell whether the angles are *adjacent* or *vertical*. Then find the value of  $x$ .

1.



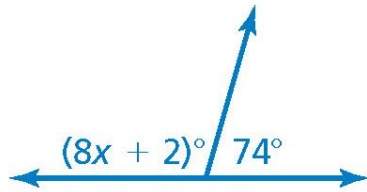
2.



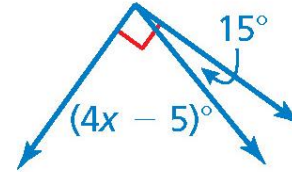
# Practice

Tell whether the angles are *complementary* or *supplementary*. Then find the value of  $x$ .

3.



4.



# **Practice – DO THESE IN YOUR NOTEBOOKS!!!**

**Draw a triangle with the given angle measures. Then classify the triangle.**

5.  $10^\circ, 80^\circ, 90^\circ$

6.  $30^\circ, 40^\circ, 110^\circ$

**Draw a triangle with the given description.**

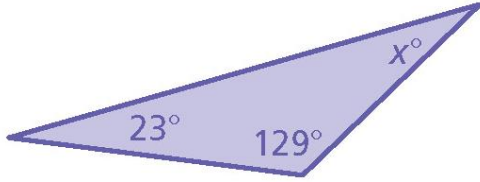
7. a triangle with a 5-inch side and a 6-inch side that meet at a  $50^\circ$  angle

8. a right isosceles triangle

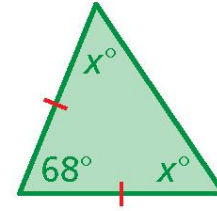
# Practice

Find the value of  $x$ . Then classify the triangle.

9.



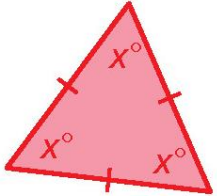
10.



# Practice

Find the value of  $x$ . Then classify the triangle.

11.

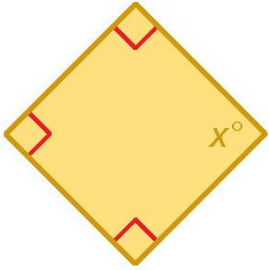




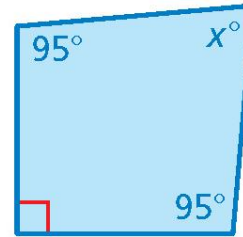
# Practice

Find the value of  $x$ .

12.



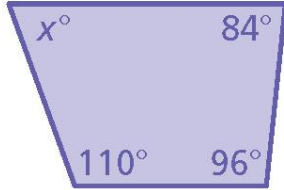
13.



# Practice

Find the value of  $x$ .

14.



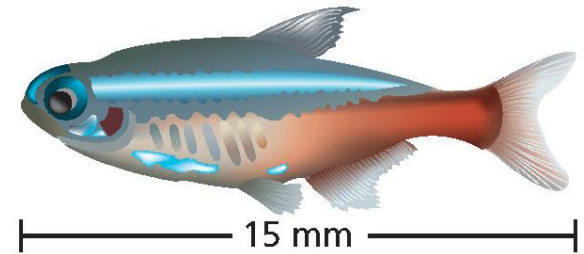
# **Practice – DO THESE IN YOUR NOTEBOOKS!!!**

**Draw a quadrilateral with the given description.**

- 15.** a rhombus with 6-centimeter sides and two  $80^\circ$  angles
- 16.** a parallelogram with a  $20^\circ$  angle and a  $160^\circ$  angle

# Practice

17. **FISH** Use a centimeter ruler to measure the fish.  
Find the scale factor of the drawing.



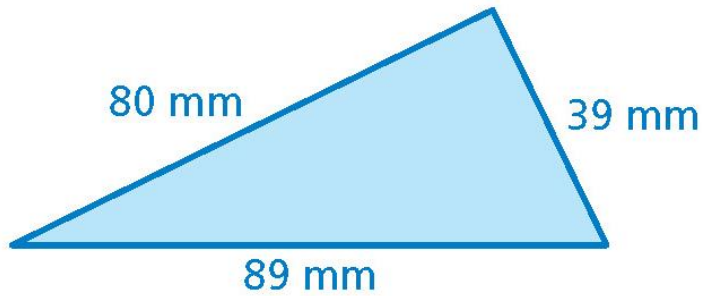
**5 cm**

## Practice

18. **CAD** An engineer is using computer-aided design (CAD) software to design a component for a space shuttle. The scale of the drawing is 1 cm : 60 in. The actual length of the component is 12.5 feet. What is the length of the component in the drawing?

# Practice

18. Tell whether the triangle is a right triangle



# **Practice**

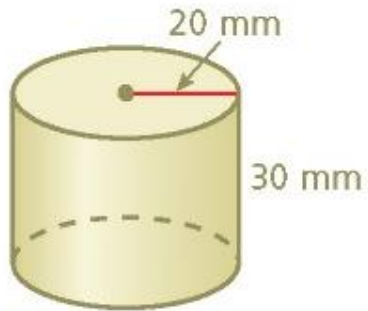
**Find the distance between the two points.**

**19.**  $(-2, 3), (6, 9)$

# Practice

Find the volume of the solid. Round your answer to the nearest tenth.

1.



2.

