12.1-12.3 & 7.5

REVIEW

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

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

12.3 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

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.**

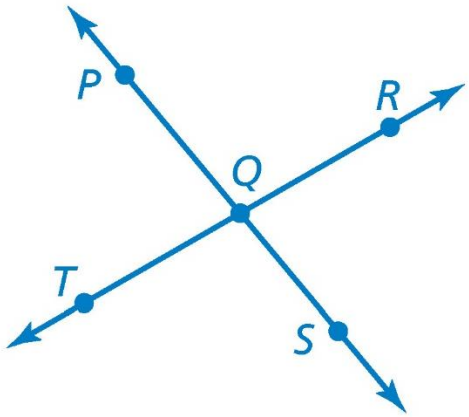
Key Concepts:

- Converse of the Pythagorean Theorem
- Distance Formula

Practice

Name two pairs of adjacent angles and two pairs of vertical angles in the figure. *(Section 12.1)*

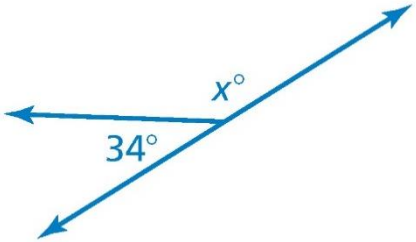
1.



Practice

Tell whether the angles are *adjacent* or *vertical*. Then find the value of *x*. *(Section 12.1)*

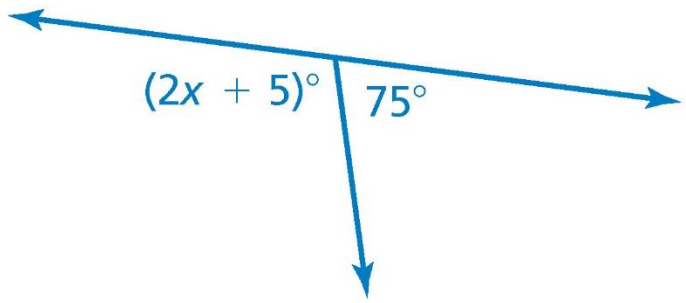
3.



Practice

Tell whether the angles are *complementary* or *supplementary*. Then find the value of x. *(Section 12.2)*

6.



Practice

Draw a triangle with the given description. *(Section 12.3)*

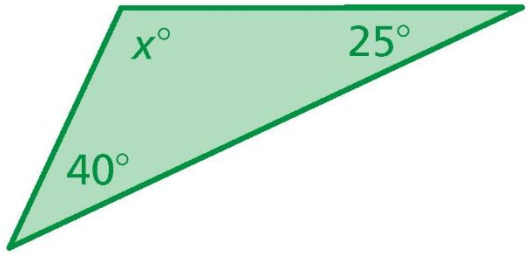
8. a triangle with angle measures of 35°, 65°, and 80°

DO THIS IN YOUR NOTEBOOK

Practice

Find the value of x. Then classify the triangle. *(Section 12.3)*

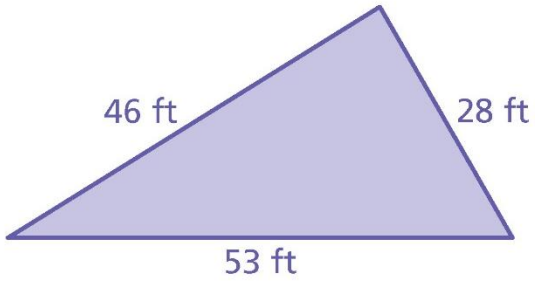
11.



Practice

Tell whether the triangle with the given side lengths is a right triangle. *(Section 7.5)*

13.



Practice

Find the distance between the two points. *(Section 7.5)*

15. $(-3, -1), (-1, -5)$

Practice

Find the distance between the two points. *(Section 7.5)*

15. $(-3, -1), (-1, -5)$

Practice

Use the figure to answer Exercises 21–24. Round your answer to the nearest tenth. *(Section 7.5)*

21. How far is the cabin from the peak?