d°

MY Homework

Lesson 7

Solve Problems with Angles

Homework Helper



Need help? connectED.mcgraw-hill.com

Find the measure of the unknown angle. The combined angle measure is 140°.

Use an equation.

You know the total measure is 140°. One angle is 25°.

Let *d* represent the unknown angle measure.

$$25 + d = 140$$

Since 25 + d = 140, you know that 140 - 25 = d.

Addition and subtraction are inverse, or opposite operations.

$$d = 140 - 25$$

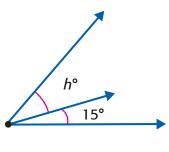
$$d = 115$$

So, the measure of the unknown angle is 115°.

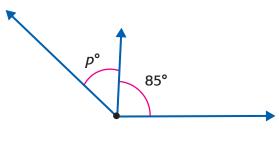
Practice

Algebra Find each unknown.

1. The combined angle measure is 50°.

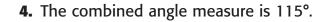


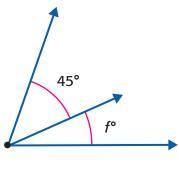
2. The combined angle measure is 135°.

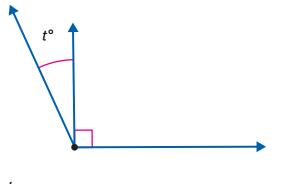


Algebra Find each unknown.

3. The combined angle measure is 70°.

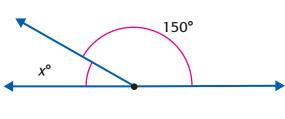


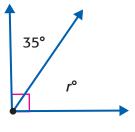




 $f = \underline{\hspace{1cm}}$

- t = _____
- **5.** The combined angle measure is 180°.
- **6.** Find the value of *r*.







Problem Solving

7. PRACTICE Make a Plan A photographer is taking the fourth-grade class picture. She stands on a ladder to get a better angle. From the top step of the ladder, she will shoot at a 45° angle. There are 3 evenly spaced steps. From what angle would the photographer shoot on the bottom step?

Test Practice

- **8.** The combined angle measure is 120°. What is the value of n?
 - **A** 45
 - B 40
 - © 35
 - D 30

