MY Homework

Lesson 7

Solve Problems with Angles

Homework Helper

eHelp

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

25° d°

Use an equation.

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

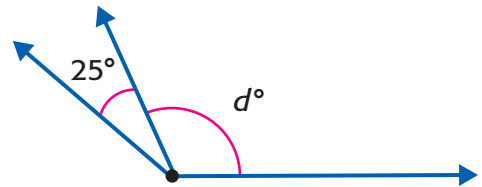Let d represent the unknown angle measure.

$$25 + d = 140$$

Since $25 + d = 140$, you know that $140 - 25 = d$. ← Addition and subtraction are inverse, or opposite operations.
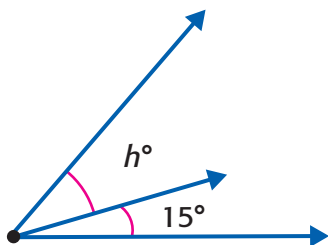
$$d = 140 - 25$$

$$d = 115$$

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

Practice

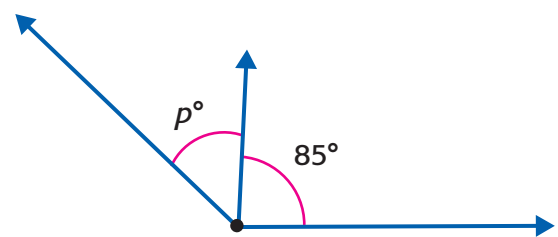**Algebra Find each unknown.**

1. The combined angle measure is 50°.

$h°$ 15°

$h =$ _____

2. The combined angle measure is 135°.

$p°$ 85°

$p =$ _____

Algebra **Find each unknown.**

3. The combined angle measure is 70°.

45°

f°
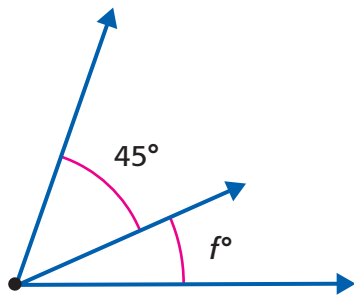
f = _____

4. The combined angle measure is 115°.

t°
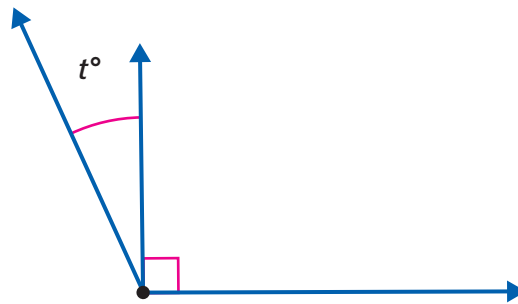
t = _____

5. The combined angle measure is 180°.

150°

x°
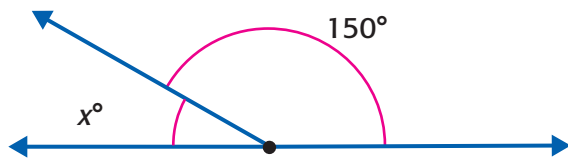
x = _____

6. Find the value of r.

35°

r°

r = _____
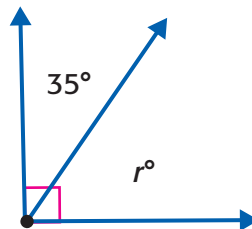
Problem Solving

Mathematical
7. PRACTICE **1** **Make a Plan**

Suppose you drew a line from the center of a clock face to the number 12. When the minute hand gets to 3 on the clock face, the line and the minute hand form a 90° angle. What angle does the line and the minute hand make when the minute hand is on 2?

_____

Test Practice

8. The combined angle measure is 120°. What is the value of n?

Ⓐ 45

Ⓑ 40

Ⓒ 35

Ⓓ 30

n°

80°

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