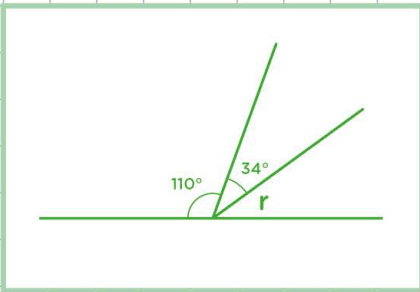


Name: Class:

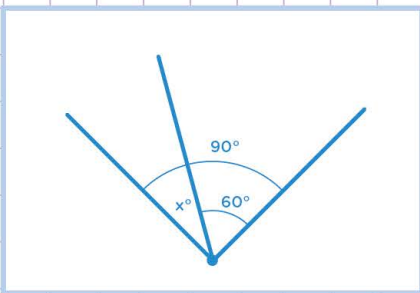
Find measures complementary ,supplementary, vertical and adjacent angles

Remember that supplementary angles add up to 180° , complementary angles add up to 90° .

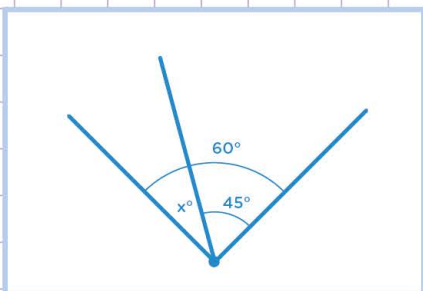
1. Find the unknown angle in this problem.



2. Find the unknown angle x° .



3. Find the unknown angle x° .



Name: Class:

Find measures of complementary ,supplementary, vertical, and adjacent angles

Remember that supplementary angles add up to 180°, complementary angles add up to 90°.

1. Find the unknown angle in this problem.

▶ **Step 1:** Identify the type of angle. **Supplementary angle.**

▶ **Step 2:** Add the measure of the supplementary angle.

$$110^\circ + 34^\circ + r$$

▶ **Step 3:** Set the sum equal to 180°.

$$110^\circ + 34^\circ + r = 180^\circ$$

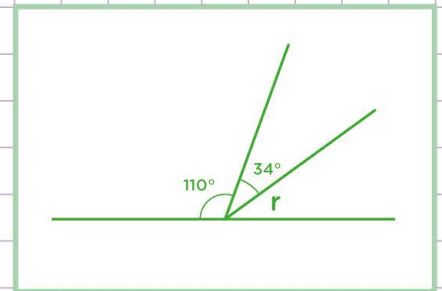
$$144^\circ + r = 180^\circ$$

$$r = 180^\circ - 144^\circ$$

$$r = 36^\circ$$



So, $r = 36^\circ$



2. Find the unknown angle x° .

▶ **Step 1:** Identify the type of angle. **Complementary angle.**

▶ **Step 2:** Add the measure of the complementary angle.

$$60^\circ + x$$

▶ **Step 3:** Set the sum equal to 90°.

$$60^\circ + x = 90^\circ$$

$$\cancel{60^\circ} + x - \cancel{60^\circ} = 90^\circ - 60^\circ$$

$$x = 30^\circ$$



So, $x = 30^\circ$

