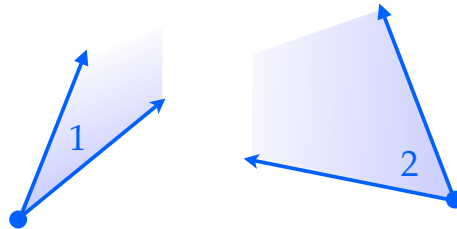


Definition of **Complementary Angles**

Two angles are **complementary**, if and only if their measures add to equal 90° .

If two angles are **complementary**, then their measures add to equal 90° .

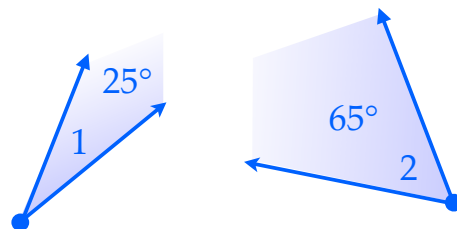


$\angle 1$ and $\angle 2$ are **complementary angles**

Definition of **Complementary Angles**

Two angles are **complementary**, if and only if their measures add to equal 90° .

If the measure of two angles add to equal 90° , then those two angles are **complementary**.



$$25^\circ + 65^\circ = 90^\circ$$

Definition of Complementary Angles

Two angles are **complementary**, if and only if their measures add to equal 90° .

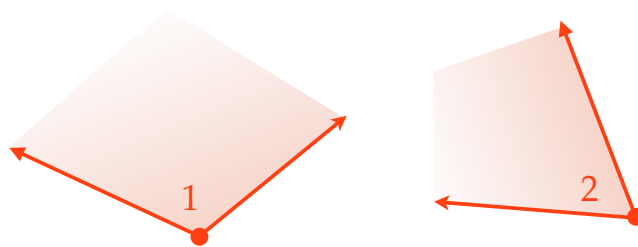
If two angles are **complementary**, then their measures add to equal 90° .

If the measure of two angles add to equal 90° , then those two angles are **complementary**.

Definition of Supplementary Angles

Two angles are **supplementary**, if and only if their measures add to equal 180° .

If two angles are **supplementary**, then their measures add to equal 180° .

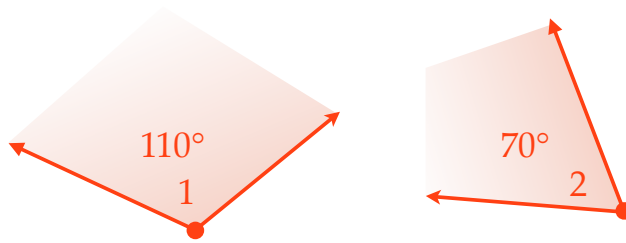


$\angle 1$ and $\angle 2$ are **supplementary angles**

Definition of Supplementary Angles

Two angles are **supplementary**, if and only if their measures add to equal 180° .

If the measures of two angles add to equal 180° , then those two angles are **supplementary**.



$$110^\circ + 70^\circ = 180^\circ$$

Definition of Supplementary Angles

Two angles are **supplementary**, if and only if their measures add to equal 180° .

If two angles are **supplementary**, then their measures add to equal 180° .

If the measures of two angles add to equal 180° , then those two angles are **supplementary**.

Find the **complement** of the following angles.

Two angles are **complementary**, if and only if their measures add to equal **90°** .

$$m\angle 1 = 65^\circ$$

$$m\angle 1 = 13^\circ$$

Find the **supplement** of the following angles.

Two angles are **supplementary**, if and only if their measures add to equal **180°** .

$$m\angle 1 = 125^\circ$$

$$m\angle 1 = 48^\circ$$

The **measure** of **angle A** plus two times its **complement** is equal to 120° .
What is the measure of **angle A**?

The **measure** of **angle A** plus three times its **supplement** is equal to 240° .
What is the measure of **angle A**?

Definition of Complementary Angles

Two angles are **complementary**, if and only if their measures add to equal 90° .

Definition of Supplementary Angles

Two angles are **supplementary**, if and only if their measures add to equal 180° .