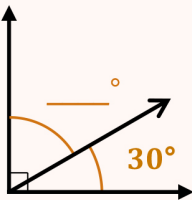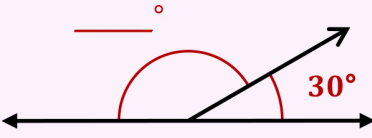# TOPIC: COMPLEMENTARY & SUPPLEMENTARY ANGLES

Introduction to Complementary & Supplementary Angles

◆ **Complementary** angles are two angles that add to _____, while **Supplementary** angles add to _____.

Complementary Angles	Supplementary Angles
$\theta_1 + \theta_2 =$ _____ ° **C**omplementary angles form right **C**orners.	$\theta_1 + \theta_2 =$ _____ ° **S**upplementary angles form **S**traight lines.

EXAMPLE Find the complement & the supplement of the given angle, if possible.

(A)

20°

Complement: _____

Supplement: _____

(B)

100°

Complement: _____

Supplement: _____

Note: Complementary & supplementary angles are always assumed to be *positive*.

PRACTICE Find the complement & supplement of a 45° angle.

Complement: _____

Supplement: _____

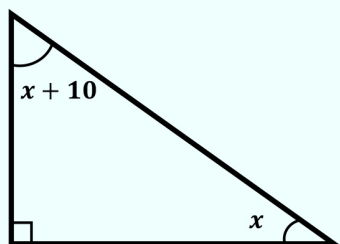## TOPIC: COMPLEMENTARY & SUPPLEMENTARY ANGLES

Solving Problems with Complementary & Supplementary Angles

◆ When problems have angles written in terms of variables (like x), use complementary & supplementary angles to solve.

▸ In a right triangle, because one angle is always 90°, the other two angles are always _____.

EXAMPLE Find each of the angles in the triangle below.

EXAMPLE Solve for each angle below.