**7.1 Angle Relationships in Triangles**

Polygon:

Vertex:

Interior Angle:

Exterior angle :
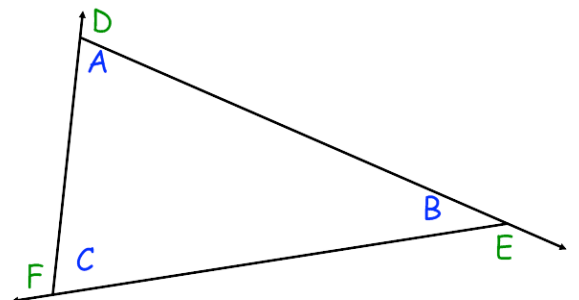
Supplementary Angles:

Complementary Angles:

**Constructing a Triangle**

**Exterior Angle Relationships**:

1. Polygon Exterior Angle Sum Theorem (PEAST)
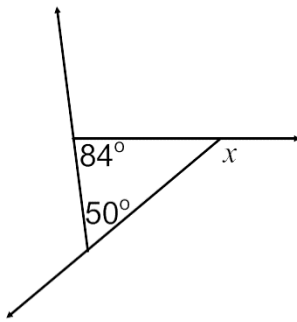
2. Exterior Angle Theorem (EAT)

**Interior Angle Relationships**:

Angle Sum Triangle Theorem (ASTT)

Examples:
1. Find the measure of the unknown angle:
a)

$84°$

$50°$

$x$

b)

$x$

$118°$

c)

$95°$

B  A

C    D    $48°$
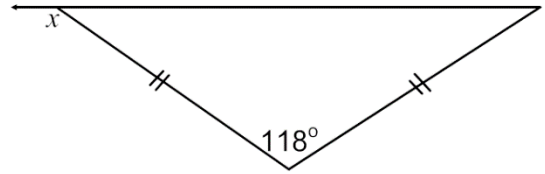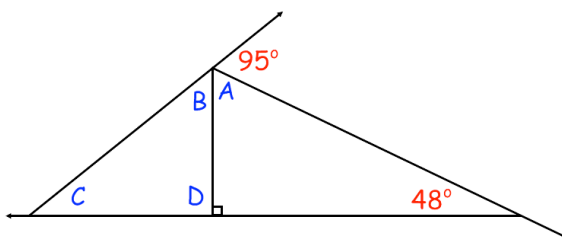
Angle A =                    Angle B =

Angle C =                    Angle D =