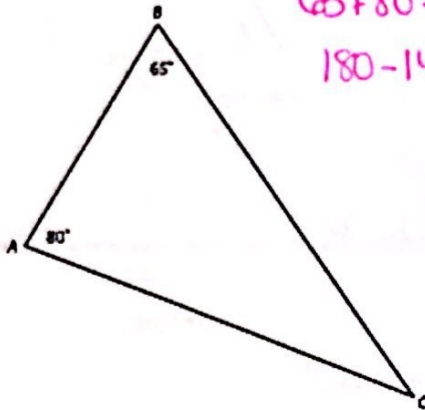


Day 1 – Angle Relationships in Triangles Practice

Determine the following angle measures:

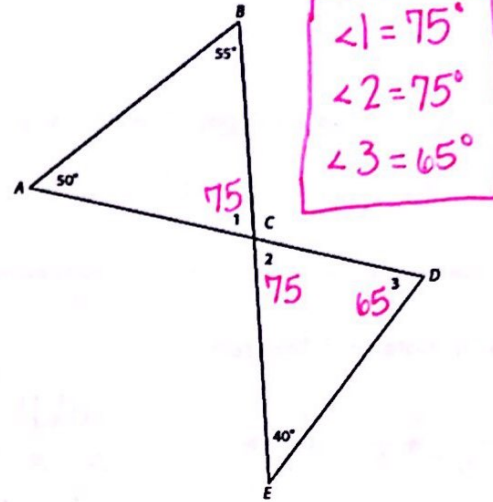
1. $m\angle C = 35^\circ$



$$65 + 80 = 145$$

$$180 - 145 = 35^\circ$$

2. $m\angle 1, m\angle 2, m\angle 3$

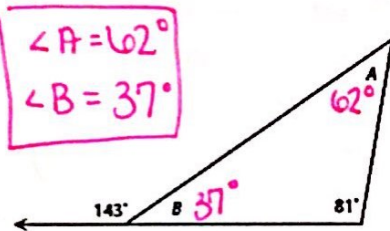


$$\angle 1 = 75^\circ$$

$$\angle 2 = 75^\circ$$

$$\angle 3 = 65^\circ$$

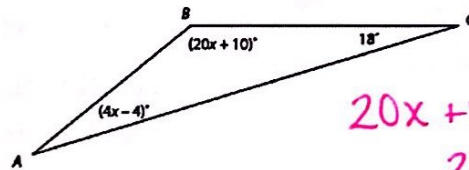
3. $m\angle A, m\angle B$



$$\angle A = 62^\circ$$

$$\angle B = 37^\circ$$

4. Solve for x:



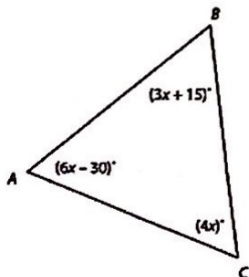
$$20x + 10 + 4x - 4 + 18 = 180$$

$$24x + 24 = 180$$

$$24x = 156$$

$$x = 6.5$$

5. $m\angle A, m\angle B, m\angle C$



$$3x + 15 + 6x - 30 + 4x = 180$$

$$13x - 15 = 180$$

$$13x = 195$$

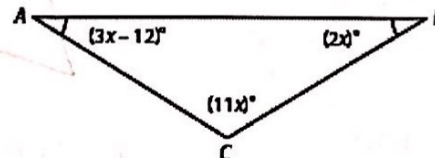
$$x = 15$$

$$\angle A = 6(15) - 30 = 60^\circ$$

$$\angle B = 3(15) + 15 = 60^\circ$$

$$\angle C = 4(15) = 60^\circ$$

6. $m\angle A$



$$3x - 12 + 2x + 11x = 180$$

$$16x - 12 = 180$$

$$16x = 192$$

$$x = 12$$

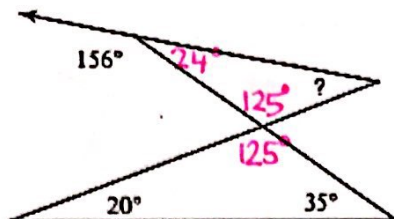
$$m\angle A = 3(12) - 12$$

$$m\angle A = 24^\circ$$

7-10: Find the measure of the missing angle (?).

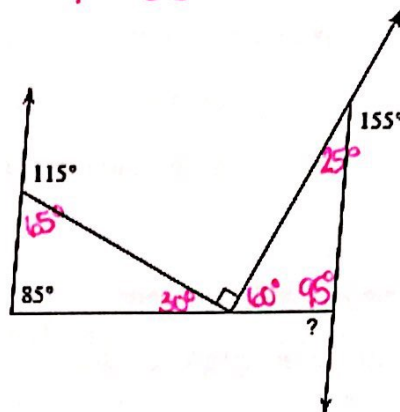
7.

$$? = 31^\circ$$



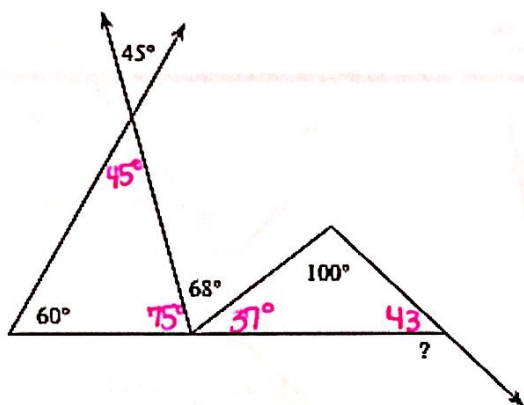
8.

$$? = 85^\circ$$



9.

$$? = 137^\circ$$



10.

$$? = 160^\circ$$

