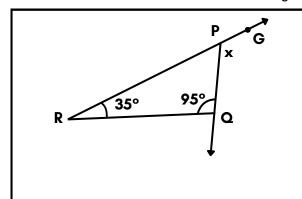
Worksheet #3

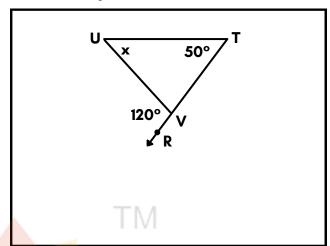


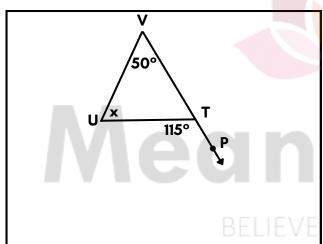
EXTERIOR ANGLE OF A TRIANGLE

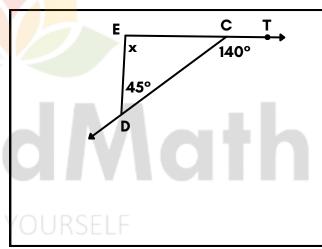
Learning goal: Students will be able to apply the exterior angle property of triangles to find unknown angles when two angles are given.

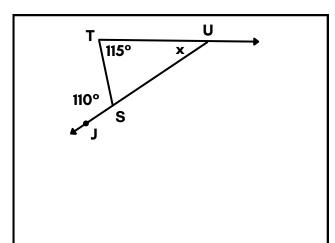
Instruction: Find the measure of missing angle in each triangle.

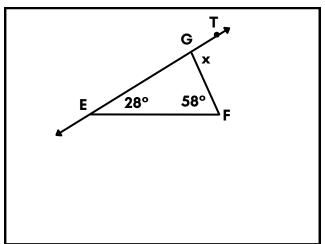












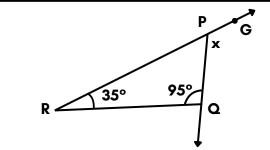
Worksheet #3(Answers)



EXTERIOR ANGLE OF A TRIANGLE

Learning goal: Students will be able to apply the exterior angle property of triangles to find unknown angles when two angles are given.

Instruction: Find the measure of missing angle in each triangle.

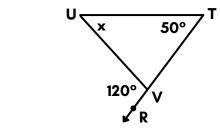


Solution:

$$x = 180^{\circ} - (35^{\circ} + 95^{\circ})$$

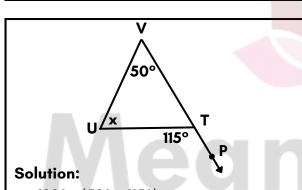
= $180^{\circ} - 130^{\circ} = 50^{\circ}$

$$x = 50^{\circ}$$



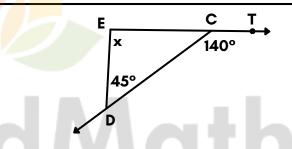
Solution:

$$\angle U = 120^{\circ} - 50^{\circ} = 70^{\circ}$$



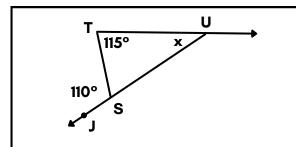
$$x = 180^{\circ} - (50^{\circ} + 115^{\circ})$$

$$x = 15^{\circ}$$



Solution:

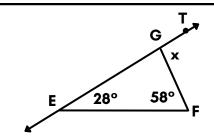
$$\angle$$
E + \angle D = 140°



Solution:

$$x = 180^{\circ} - (80^{\circ} + 70^{\circ})$$

$$x = 30^{\circ}$$



Solution:

$$x = 180^{\circ} - (28^{\circ} + 58^{\circ})$$

$$x = 94^{\circ}$$