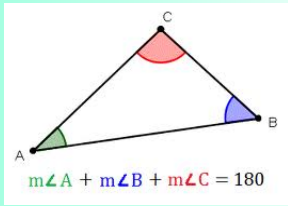
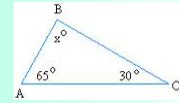
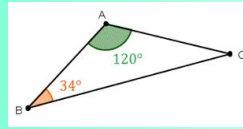


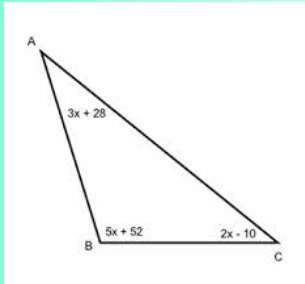
### Solving Equations using the Triangle Sum Theorem



### Review -- Find the missing angle



What equation can we write to solve for x using the triangle sum theorem?



What is the simplified equation?



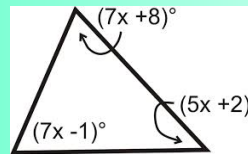
What is x?



What are the angle measures?



Write an equation and solve for x using the Triangle Sum Theorem



Equation: \_\_\_\_\_

x = \_\_\_\_\_

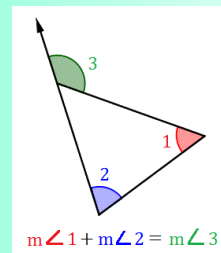
Angle Measurements:

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

### Exterior Angle Theorem

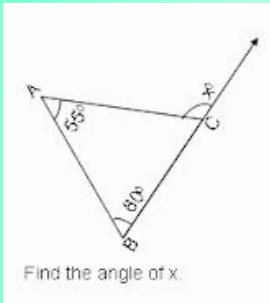
### Exterior Angle Theorem

The measure of an exterior angle of a triangle is equal to the sum of the measures of the two remote interior angles.

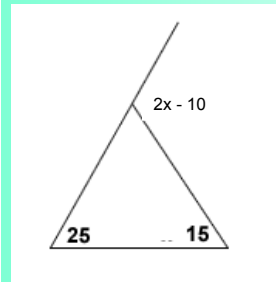


# Notes - Triangle Sum Theorem and Exterior Angle Theorem.notebook

Use The Exterior Angle Theorem to find  $x$  and measure of the exterior angle.



Use The Exterior Angle Theorem to find  $x$  and measure of the exterior angle.



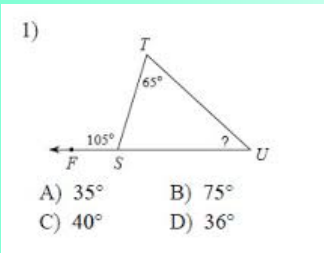
Equation:

$x =$  \_\_\_\_\_

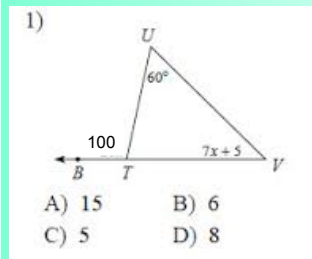
Exterior Angle:

\_\_\_\_\_

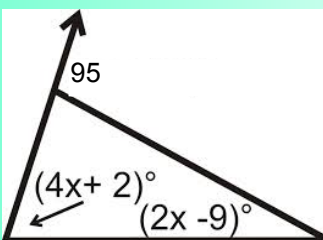
Use The Exterior Angle Theorem to solve



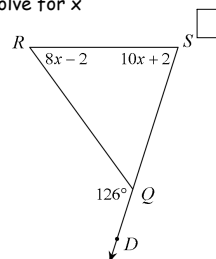
Use The Exterior Angle Theorem to solve



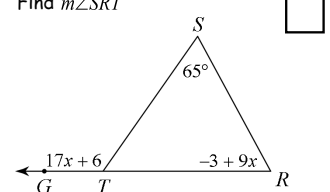
Use The Exterior Angle Theorem to solve for  $x$ .



Solve for  $x$



Find  $m\angle SRT$





## Attachments

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