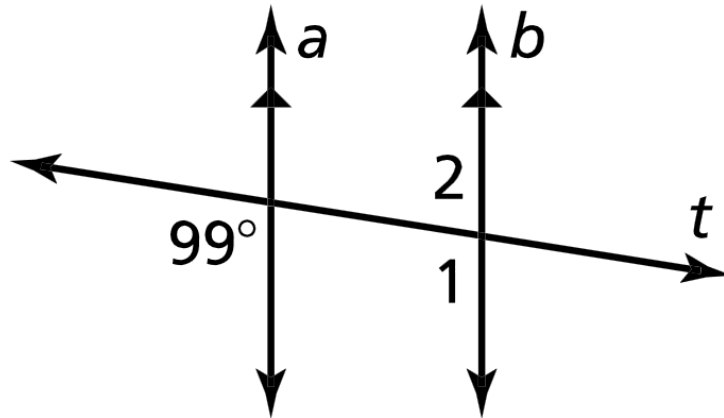


3.2

**ANGLES OF
TRIANGLES**

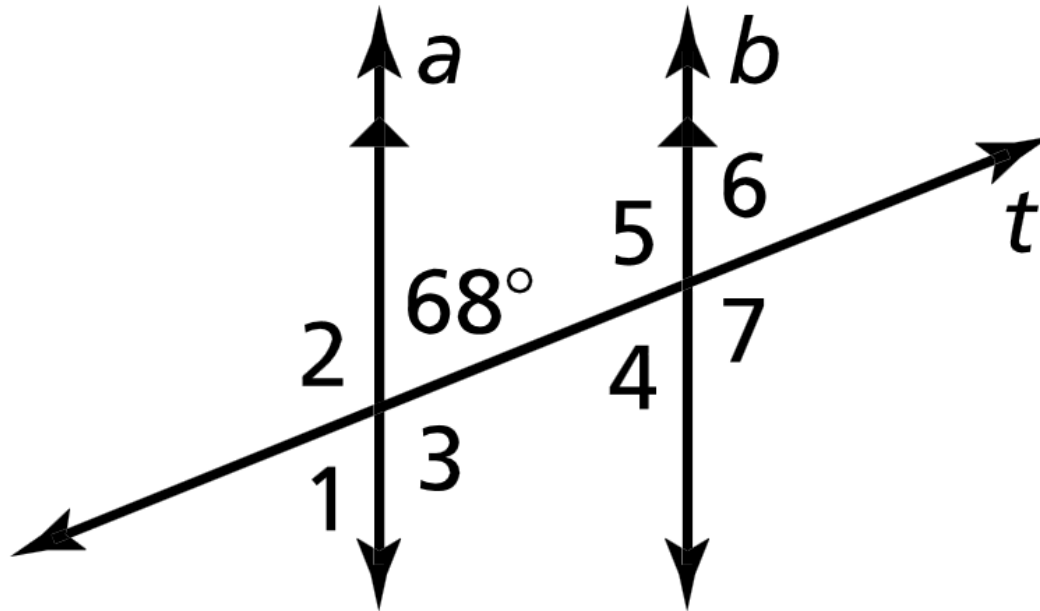
Do Now

- 1) Use the figure to find the measures of
(a) $\angle 1$ and (b) $\angle 2$.



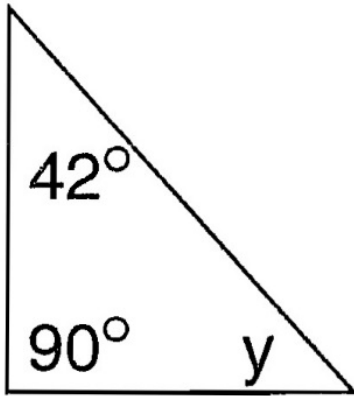
Do Now

2)



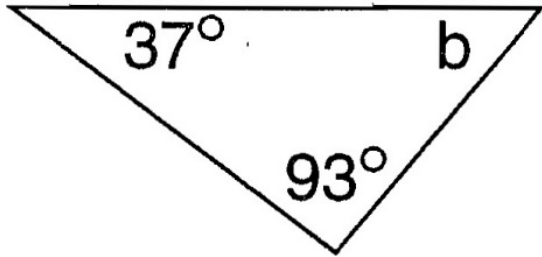
What do all the interior angles add up to in a triangle?

1) Find the missing angle.



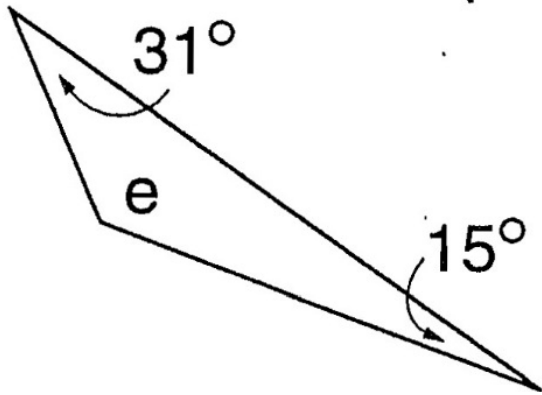
What do all the interior angles add up to in a triangle?

2) Find the missing angle.

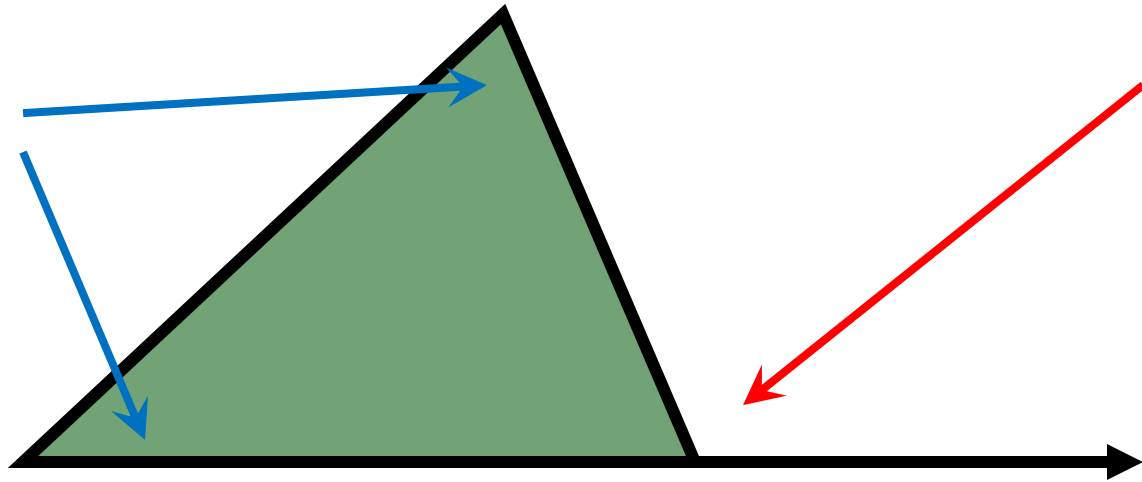


What do all the interior angles add up to in a triangle?

3) Find the missing angle.



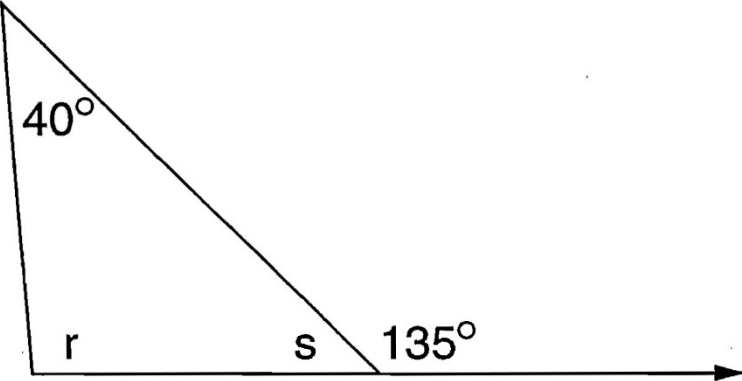
Exterior Angle



If you extend one side of a triangle from the vertex, you form an exterior angle.

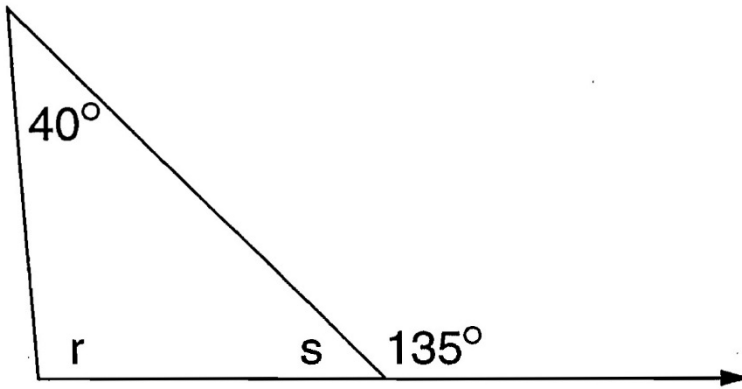
Find the missing variables.

4)



Find the missing variables.

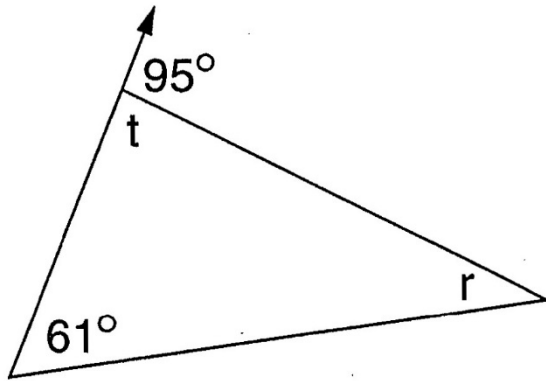
5)



What do you notice is the relationship between the exterior angle and the remote interior angles?

Find the missing variables.

6)



What do you notice is the relationship between the exterior angle and the remote interior angles?

Triangle Interior Angles Sum

The ____ of all the _____ in a triangle is _____ .

Triangle Exterior Angle Sum

The measure of an exterior angle of a triangle is _____ to the _____ of the _____ .

Review: Solving Multi-Step Equations

$$a) 7x + (2x + 12) = 39$$

Review: Solving Multi-Step Equations

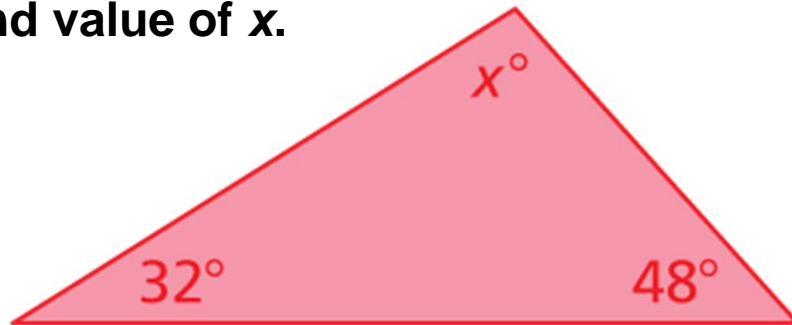
$$b) 14 + 8g - 6 = 40$$

Review: Solving Multi-Step Equations

$$c) (x + 1) + 4x + (10x - 10) = 24$$

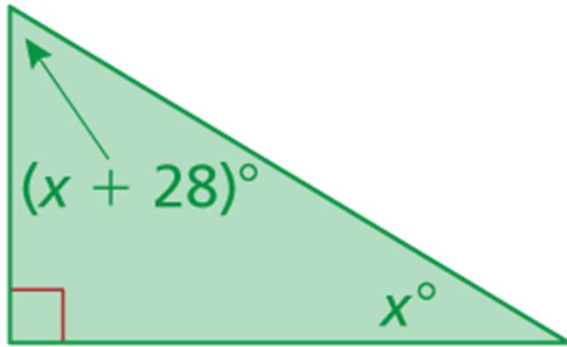
Putting it all together...

7) Find value of x .



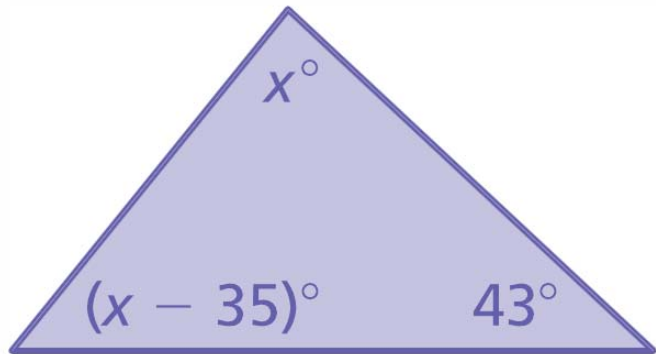
Putting it all together...

8) Find value of x .



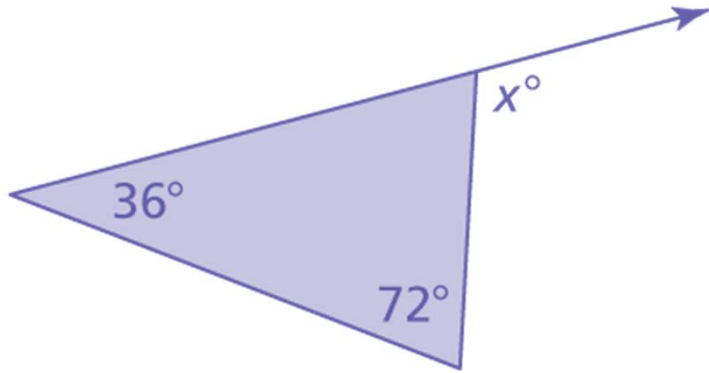
Putting it all together...

9) Find value of x .



Find the missing variables.

10)



Find the missing variables.

10)

