**CCGPS Analytic Geometry** 

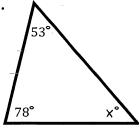
**Notes: Interior and Exterior Angles of Triangles** 

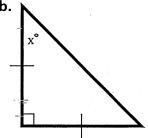
**lomework: Attached worksheet** 

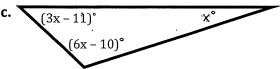
Essential Question: What are the steps to finding the measure of interior and exterior angles of a polygon?

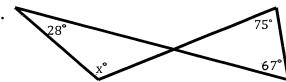
The **Triangle Angle Sum Theorem** states that the sum of the angles in a triangle is \_\_\_\_\_.

Examples: Find the value of x.



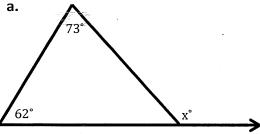


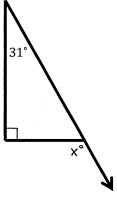




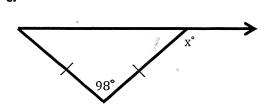
The Exterior Angle Theorem states that the measure of an exterior angle of a triangle is \_\_\_\_\_\_ to the sum of the measures of the two non-adjacent interior angles.

**Examples: Find the value of x.** 

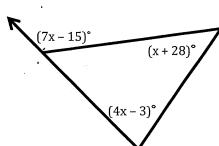




c.



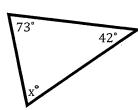
d.

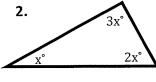


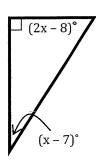
## **CCGPS Anlaytic Geometry**

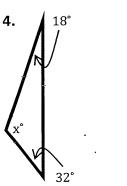
Homework: Interior and Exterior Angles of Triangles

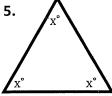
Directions: Find the value of x.

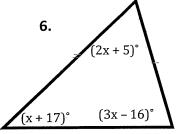


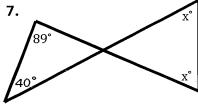




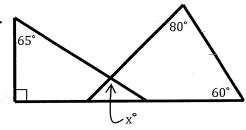


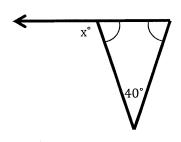


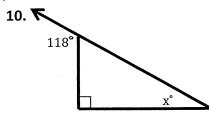


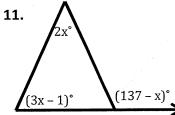


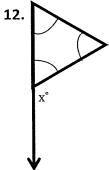
8.



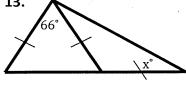


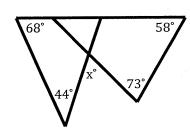






13.





KEY	D. Sala
Name:	Reriod:
CCGPS Analytic Geometry	
Interior and Exterior Angles of Triangles and Poly October 6 <sup>th</sup> – 8 <sup>th</sup> , 2014	gons
OCTOBEL 6"" – 8"", 2014	
Essential Question: What are the steps to finding the measure of interior	or and exterior
angles of a polygon?	
The Triangle Sum Theorem states that the sum of the angle	es in a triangle is $180^{\circ}$ .
Examples: Find the value of x.	
a. X+53+78=180 b.	X=45°
53° ×°	7-75
78° x°	
(X=20.1)	
c. $(3x-11)^{\circ}$ x°	75°
3x-1118x-101x-100	x° 67°
10x - 21 = 180 $10x = 201$	
	28 tx = 75+67
The Exterior Angle Theorem states that the m	x=1141 R
The states that the m	easure of an exterior
angle of a triangle is to the sum of the measures of th	e two non-adjacent
	A second
interior angles. $x = 62 + 73$	(X=121) AC
(X=135)	m21=mcA+miB
Examples: Find the value of x. a. b.	MEI -MLA+MLB
73°	
62° x°	4x-3+x+28=7x-15
^	
The gradient conservation of the contract of t	5x+25=7x-15
La company of the second of th	
180 - 98 = 41	40=2x
$y=41$ $y \times 0$	)° (x + 28)° (X=20)
X -TI	
180-41=	
980-41=	$(4x - 3)^{\circ}$

