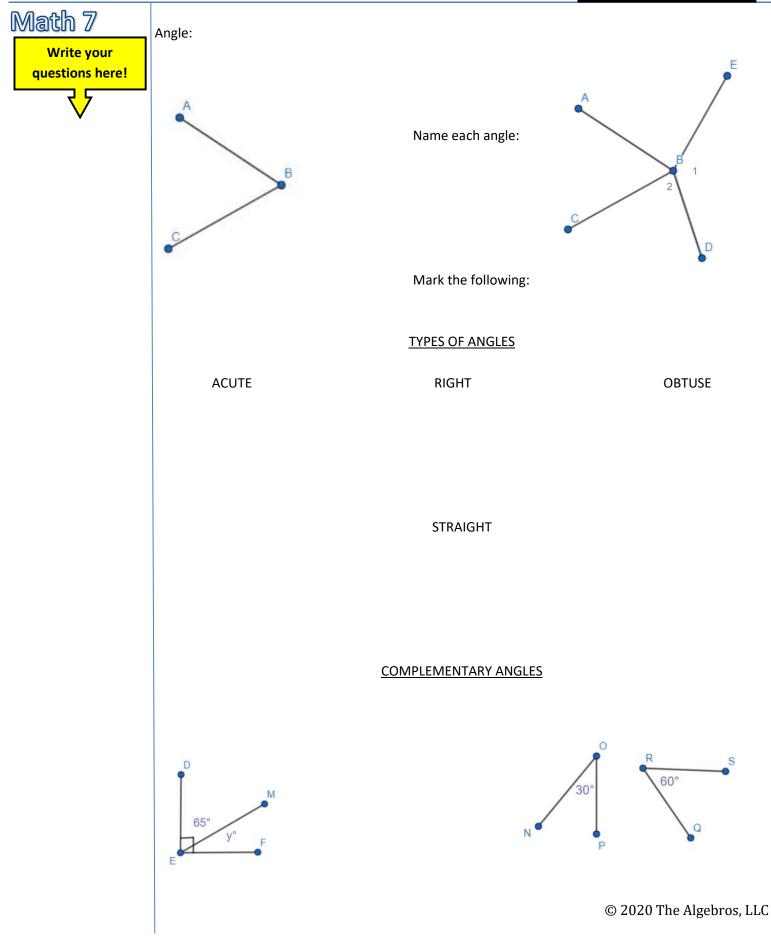
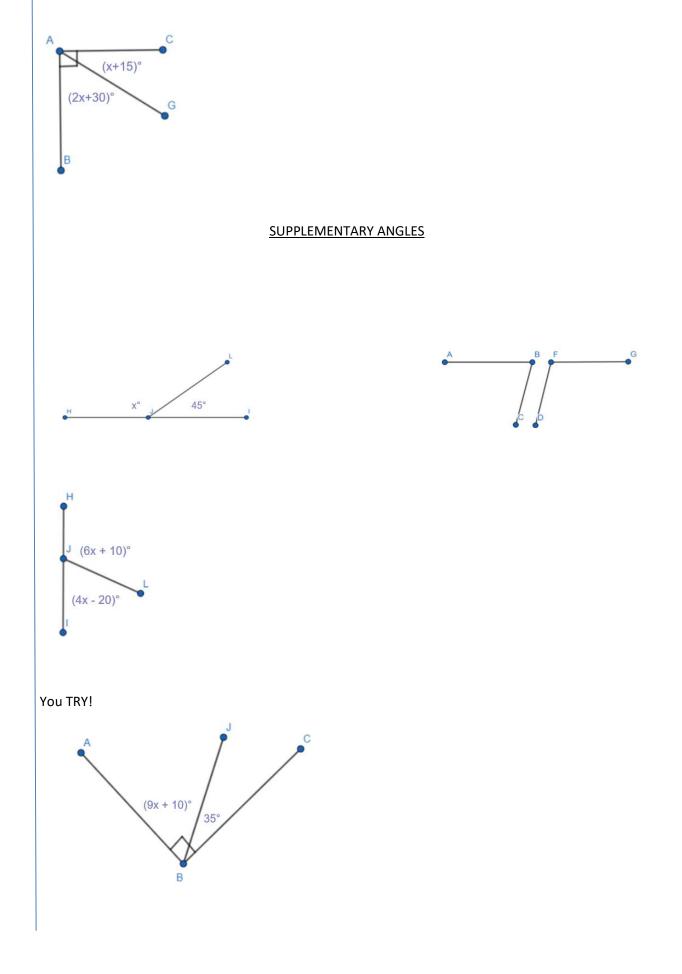
# 14.1 Angles

NOTES

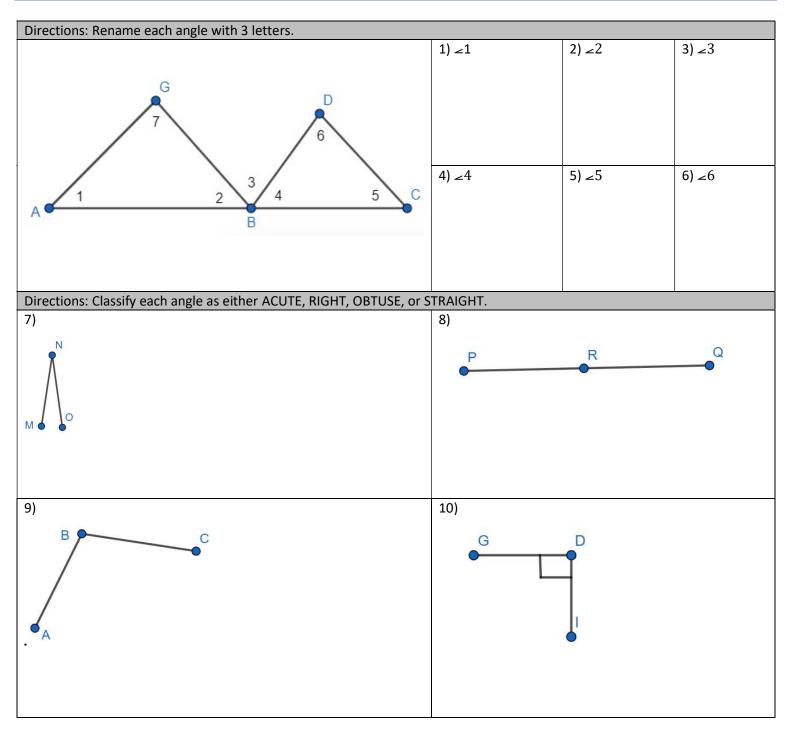


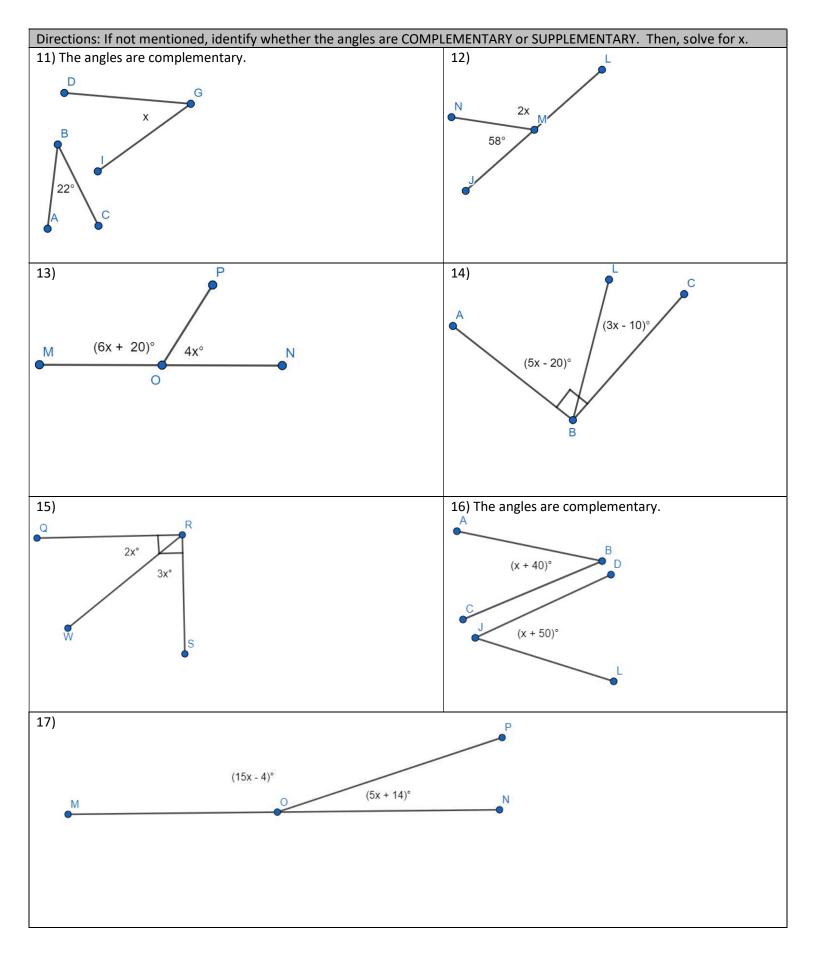




### 14.1 Angles

# PRACTICE





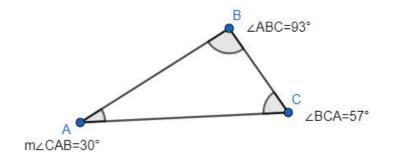
### 14.1 Angles

WRAP UP

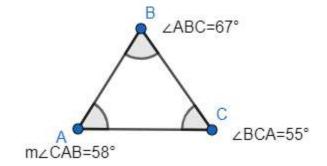
Use the following diagram to answer questions 1 and 2.		
A C C	1) Rename ∠3 using three letters.	2) $m \ge 3 = (2x - 18)^{\circ}$ $m \ge 4 = (6x + 6)^{\circ}$ Find x.

3) Find the sum of all the angles of each triangle.

Sum of the angles:



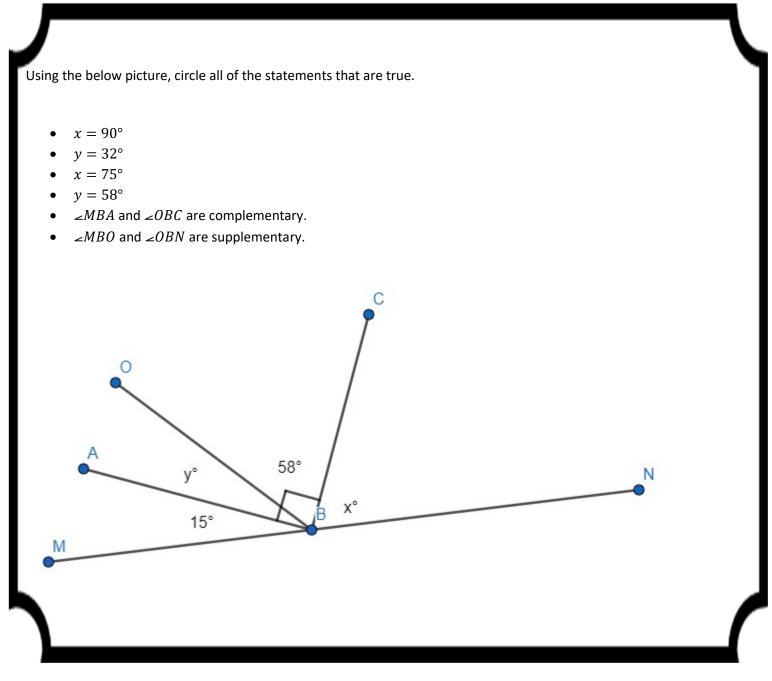
Sum of the angles:



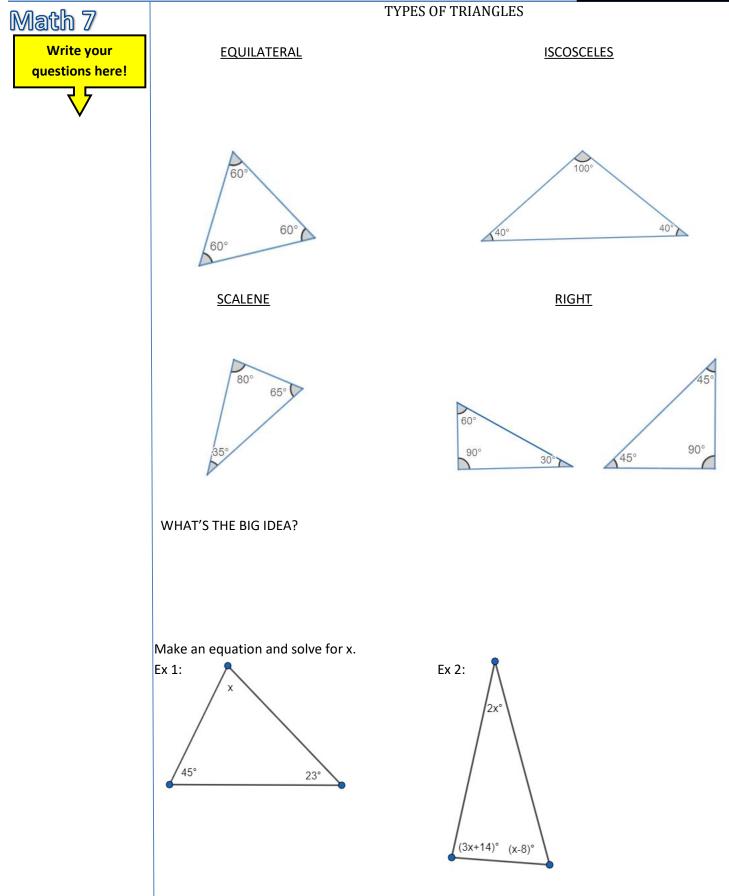


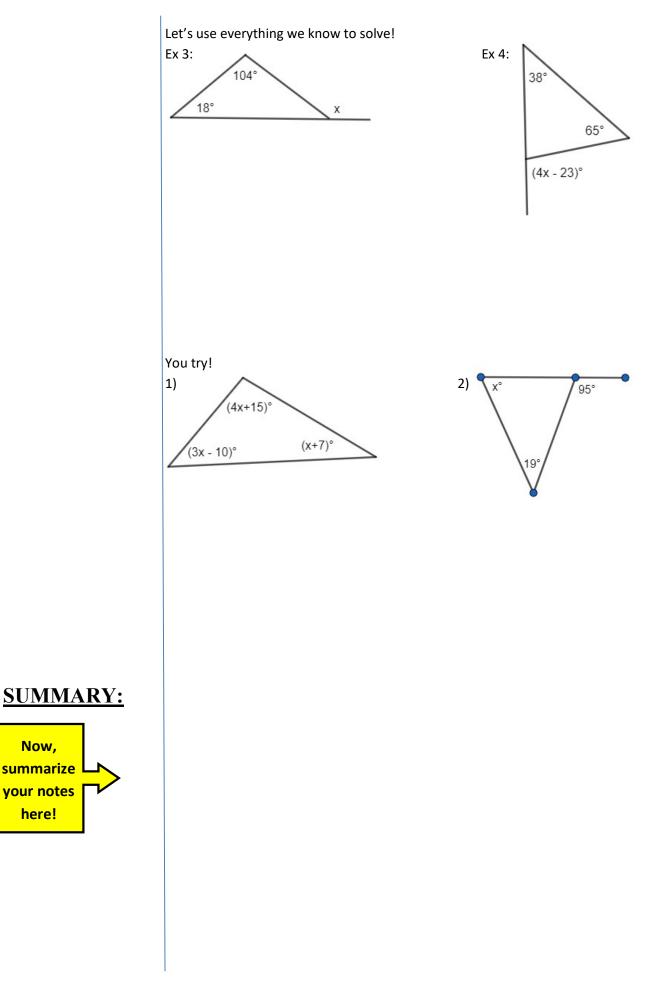
b) Looking at your results from finding the sum of the triangles, what do you think is going to be true for ALL triangles?

#### EXIT TICKET -



# 14.2 Triangles

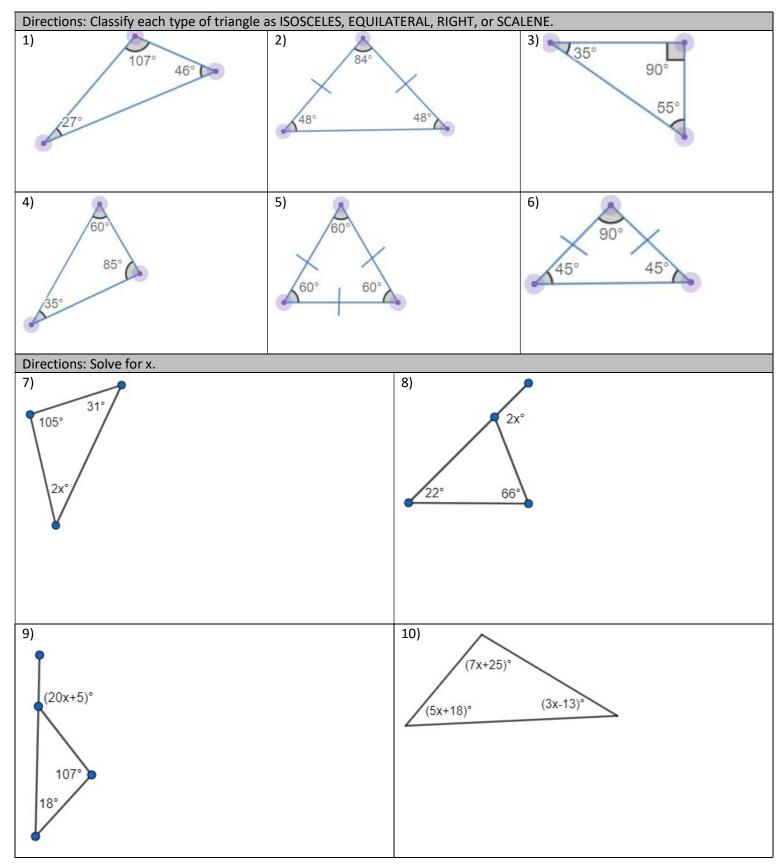


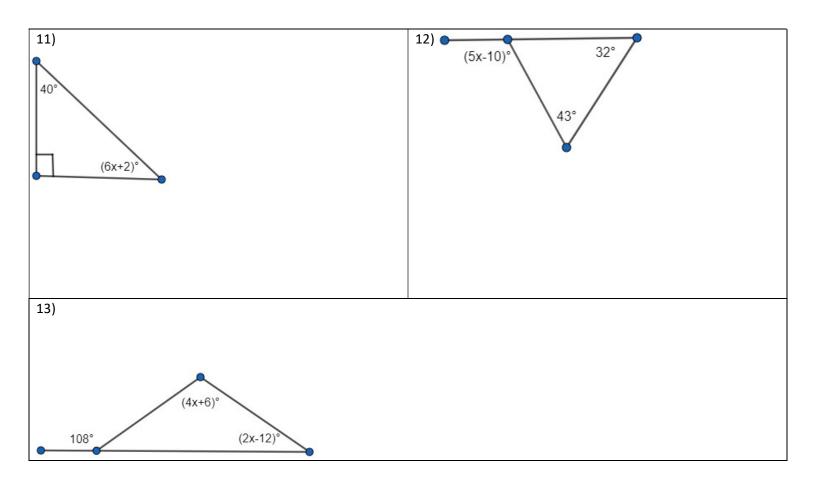


Now, summarize your notes here!

### 14.2 Triangles

# PRACTICE



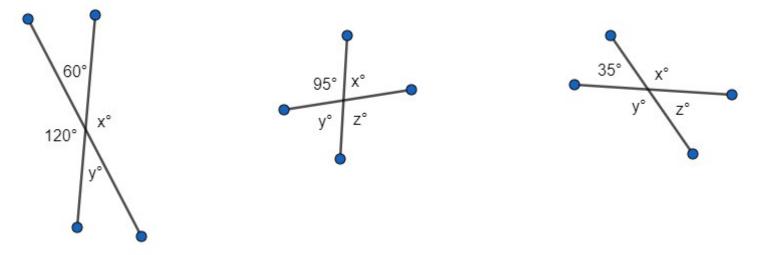


### 14.2 Triangles

# WRAP UP

Directions: Classify each type of triangle as ISOSCELES, EQUILATERAL, RIGHT, or SCALENE.	Directions: Solve for x.
	2) 100° 13x°

3) For each diagram, use your knowledge of supplemental angles to solve for x, y, and z.



What do you notice about the angles that are across from each other?

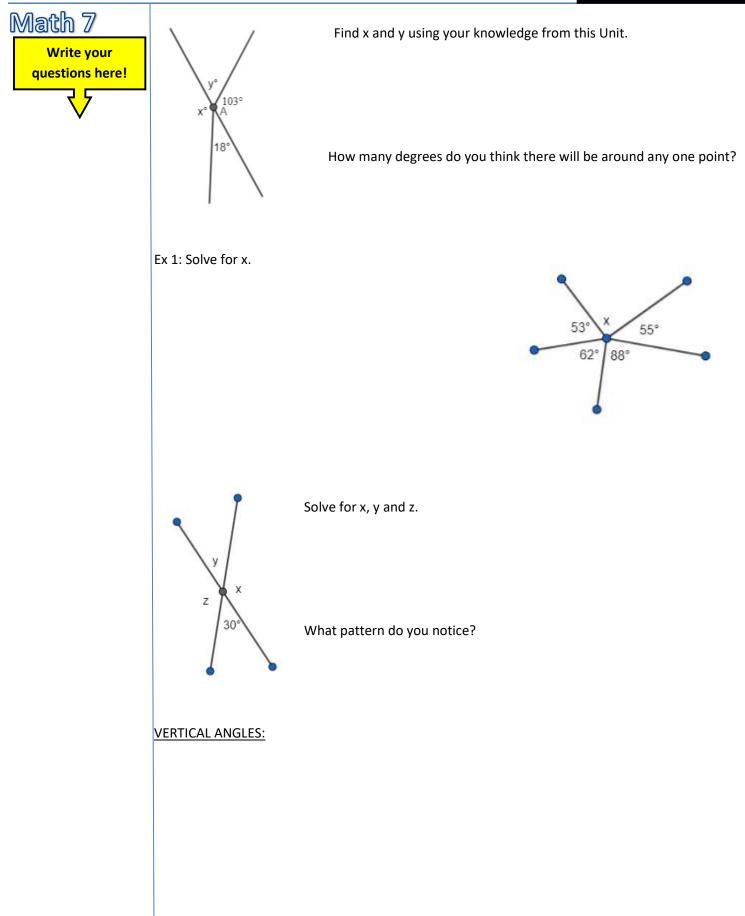
#### EXIT TICKET -

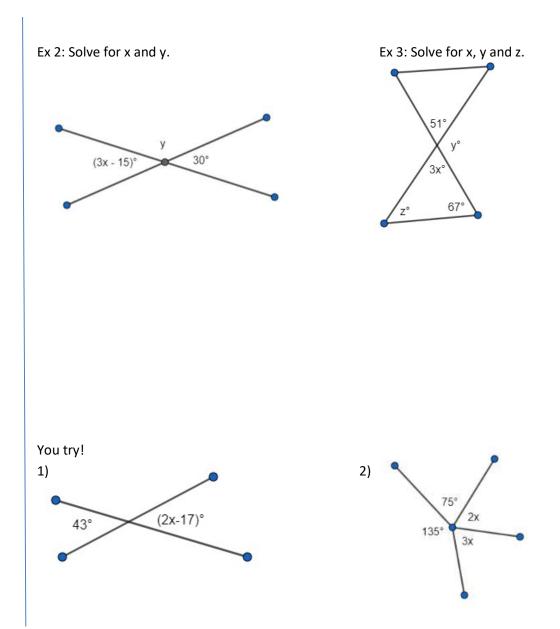
Circle all of the statements that are true. Correct any statement that is false so that it could be true.

- A triangle could have angles that measured 45°, 65° and 70°.
- A triangle could have angles that measured 40°, 50° and 80°
- A triangle could have angles that measured 1°, 2° and 187°
- A triangle could have angles that measured 90°, 90° and 90°
- A triangle could have angles that measured 60°, 60° and 60°

# 14.3 Special Angles

NOTES





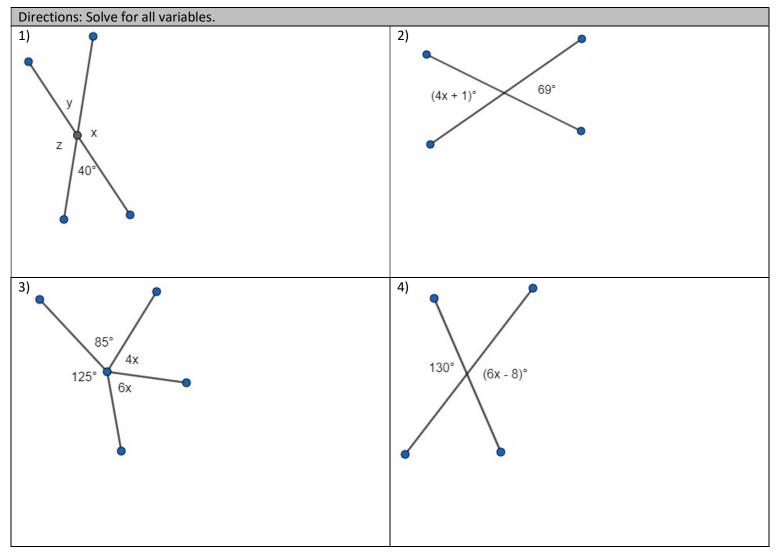
### **SUMMARY:**

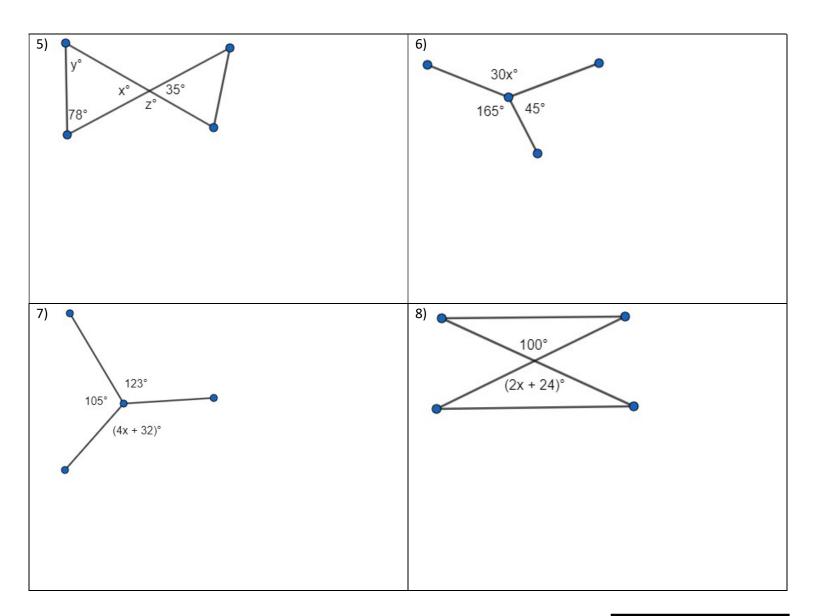


# 14.3 Special Angles

# PRACTICE

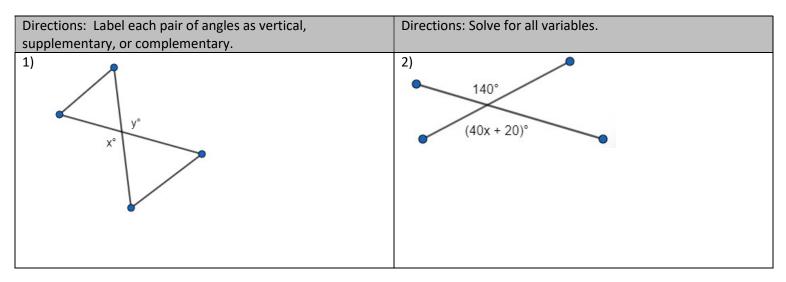
Directions: Label each pair of angles as vertical, supplementary, complementary or none.			
e d	1) ∠e and ∠b	2) ∠b and ∠c	
a b	3) ∠a and ∠c	4) ∠c and ∠d	





### 14.3 Special Angles

## WRAP UP



- 3) For each item draw and label a possible representation.
- a) A pair of vertical angles. b) A pair of complementary angles.

c) A pair of supplementary angles

d)  $\geq$ 1 such that it is supplementary to  $\geq$ 2 and vertical to  $\geq$ 3

e) 7 different angles that form around a single point

f)  $\geq$ 1 such that it is complementary to  $\geq$ 2 and vertical to  $\geq$ 3

#### EXIT TICKET -

Circle all of the statements that are true.

- One angle in a pair of vertical angles could be 60°.
- One angle in a pair of vertical angles could be 90°.
- One angle in a pair of vertical angles could be 120°.
- One angle in a pair of vertical angles could be 150°.
- One angle in a pair of vertical angles could be 200°.

For all non-circled statements, explain why they were not true.

# Unit 14 Review: Angles and Triangles

NAME: \_\_\_\_\_

Period: \_\_\_\_\_

