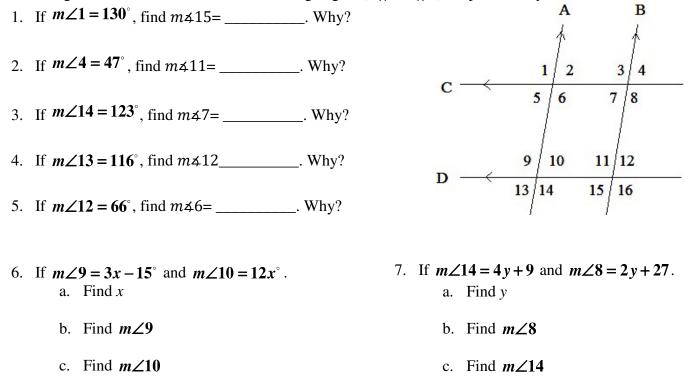
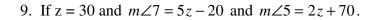
## 

Use the image to find the measure of the following angles (A||B, C||D). Explain how you know.



Use the image to the right. Explain how lines m and n are or are **NOT** parallel based on the following. 8. If r = 30 and  $m \angle 4 = 4r - 50$  and  $m \angle 5 = 3r + 20$  /



Complete the following statements:

- 10. Angles A and B are complementary. If  $m \angle A$  is 49°, then the measure of  $\angle B$  is \_\_\_\_\_
- 11. Angles Q and R are supplementary. If  $m \angle Q$  is 127°, then the measure of  $\angle R$  is \_\_\_\_\_

Tell which lines (if any) are parallel in the following picture **IF**:

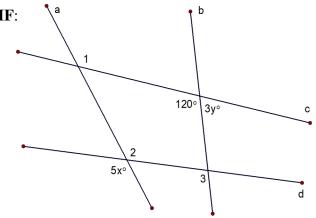
 12.  $m \angle 1 = m \angle 2$ \_\_\_\_\_\_

 13.  $m \angle 2 = m \angle 3$ \_\_\_\_\_\_

 14.  $m \angle 1 = m \angle 3$ \_\_\_\_\_\_

 15. Find x and y if allb and clld.

  $x = \______ y = \______$ 



5

m

n

Per:

Perform the constructions using a compass and straight edge only. Show all necessary markings.

16. Construct a line segment congruent to the given line.



17. Construct a line segment whose length is equal to the sum/difference of the given line segments.

SUM	DIFFERENCE

18. Construct an angle congruent to the given angle.

 $\rightarrow$ 

N

- 19. Construct a mirror image of the angle above.
- 20. Construct the angle onto the given line segment. List your steps for how you constructed the angle.

 $\rightarrow$ 

- 21. Construct a parallel line through the given point.
- 22. Construct a line parallel to the given line segment.

\_\_\_\_\_

