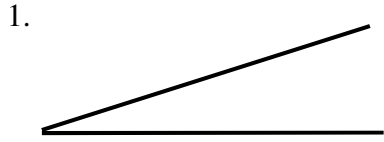


7.2H Parallel Lines

Name: _____ Per: _____

SHOW YOUR WORK FOR FULL CREDIT. NO WORK IN PEN.

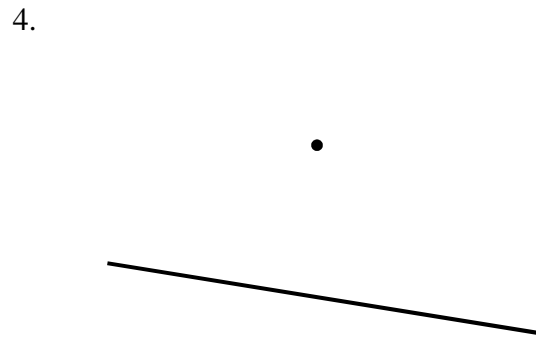
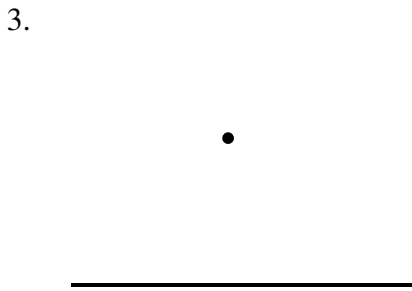
Construct the angle onto the line segment given. **List your steps** to how you constructed your angle.



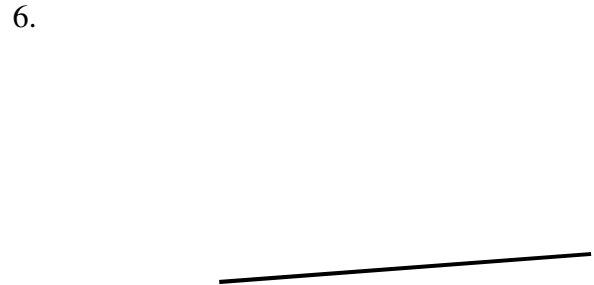
2. _____



Construct a parallel line passing through the given point. Show markings.



Construct a parallel line to the given segment. Show markings.

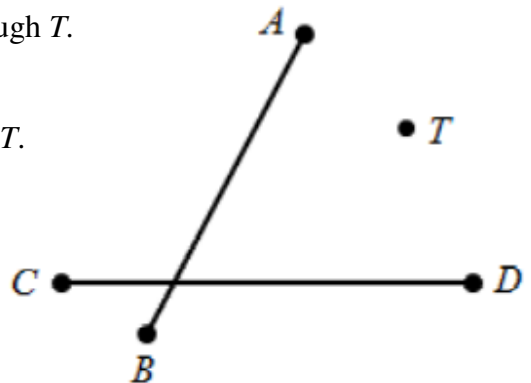


7. Explain your steps and how you know that your lines are parallel. _____

8. Use the image to the right and construct a line parallel to AB through T .

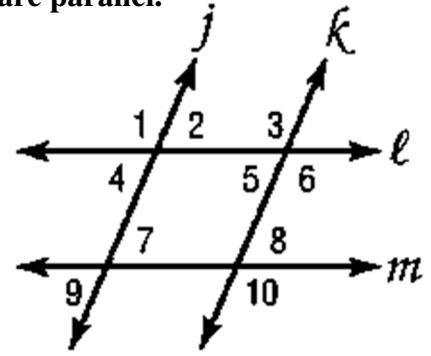
9. Now construct another line this time parallel to CD also through T .

10. What shape did you just construct?



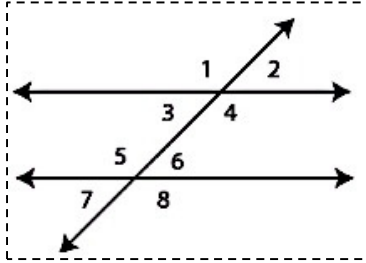
Based on each of the following statements, determine **which lines, if any, are parallel.**

11. $\angle 6 \cong \angle 10$ _____
12. $\angle 7 \cong \angle 9$ _____
13. $\angle 6 \cong \angle 1$ _____
14. $\angle 4 + \angle 1 = 180$ _____
15. $\angle 4 \cong \angle 7$ _____
16. $\angle 2 + \angle 3 = 180$ _____

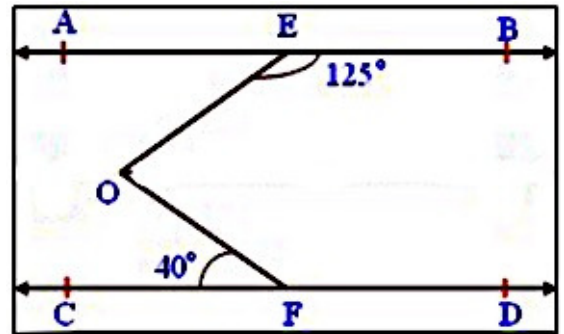


Use the image to the below each question. Be prepared to explain.

17. If $\angle 2 = 55$, find the measure of the other 7 angles in the image and explain how you know.

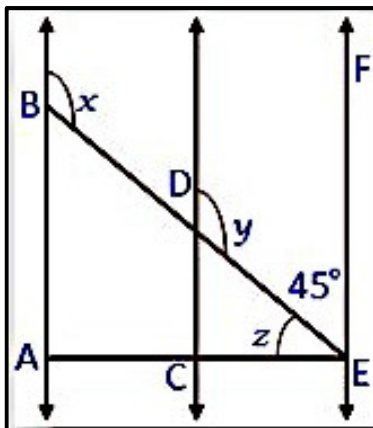


19. In the given figure $AB \parallel CD$, $\angle BEO = 125^\circ$, $\angle CFO = 40^\circ$. Find the measure of $\angle EOF$.

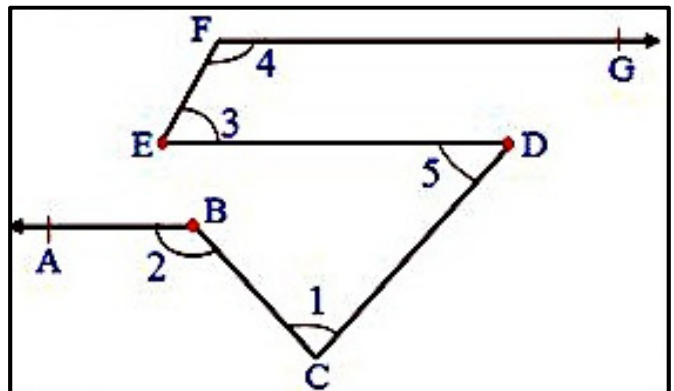


- $\angle 1$ _____
- $\angle 3$ _____
- $\angle 4$ _____
- $\angle 5$ _____
- $\angle 6$ _____
- $\angle 7$ _____
- $\angle 8$ _____

18. $AB \parallel CD \parallel EF$ and $AE \perp AB$. Find the values of $\angle x$, $\angle y$ and $\angle z$. Explain how you figured out the measurements.



20. In the figure below, $AB \parallel ED$, $ED \parallel FG$, and $EF \parallel CD$. Also, $\angle 1 = 60^\circ$, $\angle 3 = 55^\circ$, then find $\angle 2$, $\angle 4$, $\angle 5$. Explain how you figured out the measurements.



21. Name the angle relationship for angles 3 and 4 in #20 above. _____