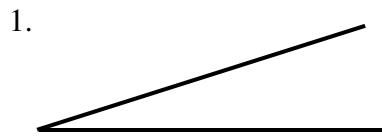


5C Constructing Parallel Lines

Name: _____ Per: _____

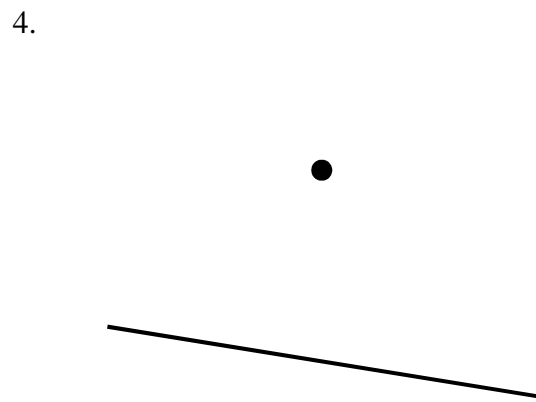
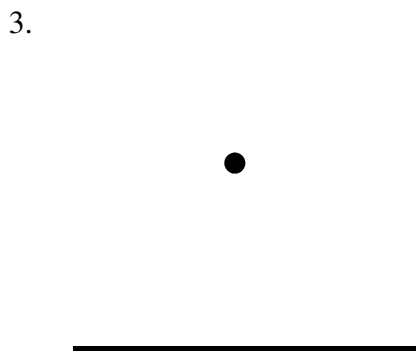
SHOW YOUR WORK FOR FULL CREDIT. NO WORK IN PEN.

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

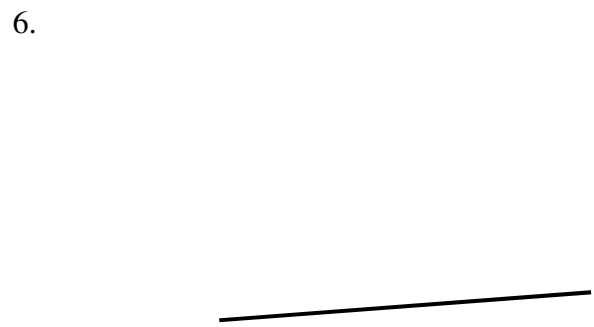
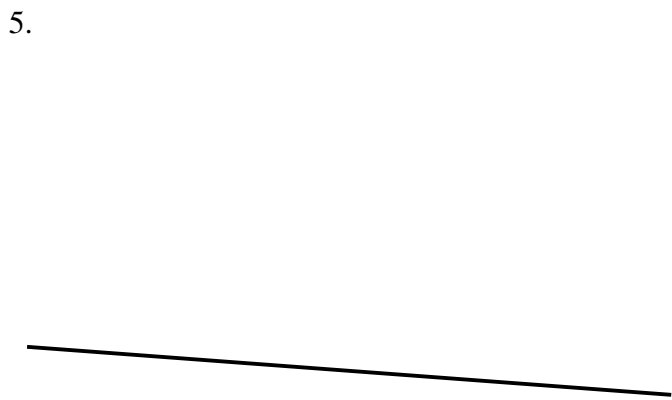


2. _____

Given the segment and point, construct a parallel line passing through the 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. Find all missing angle measures for the figure below. Explain how you know.

a. $m\angle A = \underline{\hspace{2cm}}^\circ$

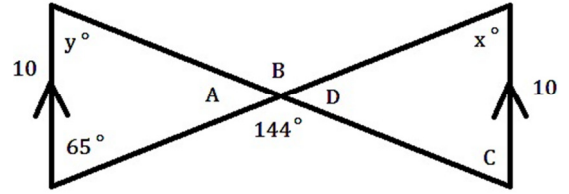
b. $m\angle B = \underline{\hspace{2cm}}^\circ$

c. $m\angle C = \underline{\hspace{2cm}}^\circ$

d. $m\angle D = \underline{\hspace{2cm}}^\circ$

e. $x = \underline{\hspace{2cm}}^\circ$

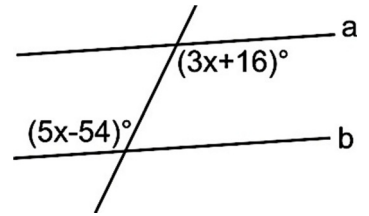
f. $y = \underline{\hspace{2cm}}^\circ$



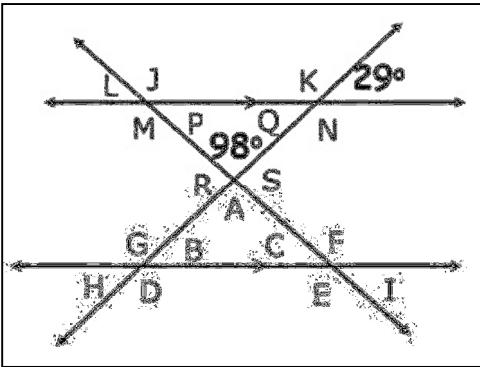
9. Using the image to the right and $a \parallel b$. Find the value of x .

a. $x = \underline{\hspace{2cm}}$

b. What is the relationship between the two angles?



10. Find the missing angles from the image below.



$\angle A = \underline{\hspace{1cm}}$ $\angle B = \underline{\hspace{1cm}}$ $\angle C = \underline{\hspace{1cm}}$ $\angle D = \underline{\hspace{1cm}}$ $\angle E = \underline{\hspace{1cm}}$

$\angle F = \underline{\hspace{1cm}}$ $\angle G = \underline{\hspace{1cm}}$ $\angle H = \underline{\hspace{1cm}}$ $\angle I = \underline{\hspace{1cm}}$ $\angle J = \underline{\hspace{1cm}}$

$\angle K = \underline{\hspace{1cm}}$ $\angle L = \underline{\hspace{1cm}}$ $\angle M = \underline{\hspace{1cm}}$ $\angle N = \underline{\hspace{1cm}}$ $\angle S = \underline{\hspace{1cm}}$

$\angle P = \underline{\hspace{1cm}}$ $\angle Q = \underline{\hspace{1cm}}$ $\angle R = \underline{\hspace{1cm}}$

11. Use the following image to answer the questions. $AB \parallel CD$.

a. If $\angle CLK$ measures 120° , what is the measure of $\angle AKJ$? $\underline{\hspace{2cm}}$.

How do you know? $\underline{\hspace{4cm}}$

b. What would be the measure of $\angle KLD$? $\underline{\hspace{2cm}}$

c. What is the relationship between lines EF and GH?

$\underline{\hspace{4cm}}$

d. What is the relationship between lines EF and AB?

$\underline{\hspace{4cm}}$

e. If $MN = 4$ cm, what is OP ? $\underline{\hspace{2cm}}$

f. If $NP = 3$ cm, what is MO ? $\underline{\hspace{2cm}}$

