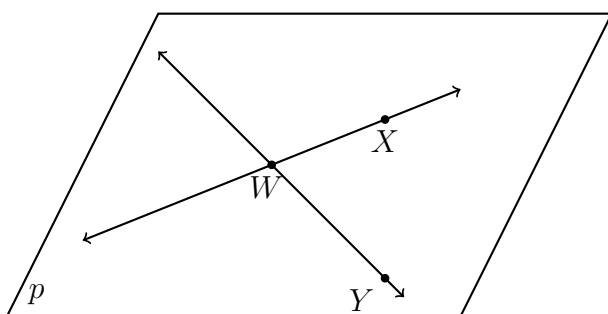
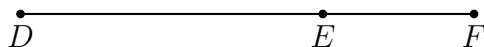


1-7Exam-corrections

- Points that are all located on the same line are _____.
- Draw and label a line segment \overline{AB} such that the distance between points A and B is 4 cm.
- Identify three line segments in the given plane.



- A flat surface is a(n) _____.
- Find the value of $|15 - 3| + |4 - 15|$.
- Two line segments or angles of equal measure are _____.
- Given \overline{DEF} , $DE = 4\frac{1}{5}$, and $EF = 1\frac{3}{5}$.
(a) Find DF .



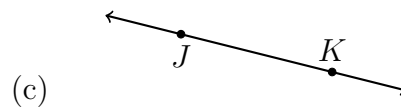
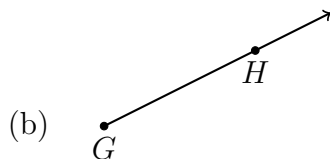
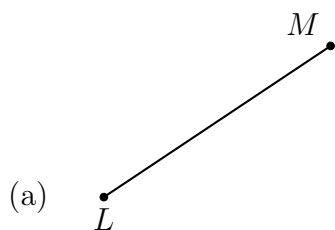
- The postulate used in this problem is the _____.

8. Given the points V and W , draw \overline{VW} .

\dot{V}

\dot{W}

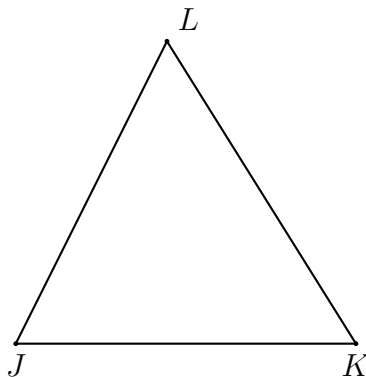
9. Use symbols to write the name of each geometric figure.



10. Given $P(-2, 5)$ and $Q(4, -7)$. What is the slope of \overleftrightarrow{PQ} ? Use the formula $m = \frac{y_Q - y_P}{x_Q - x_P}$.

11. Using a straightedge, draw a pair of opposite rays. Label any points in the drawing and name the two rays to the right of the drawing, using proper notation.

12. Given $\triangle JKL$ with $\overline{JK} \cong \overline{JL}$. On the diagram mark the congruent line segments with tick marks.

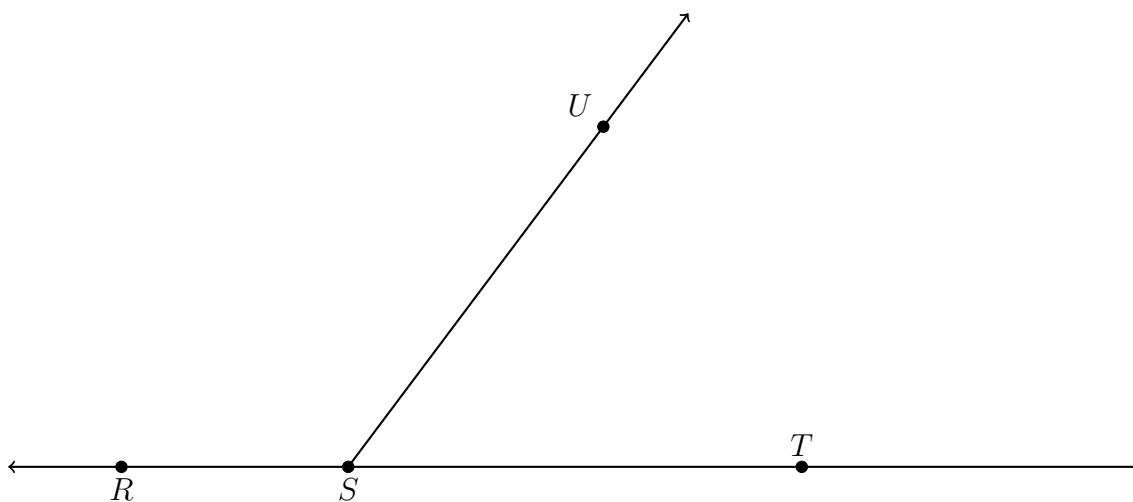


13. Find the measure of the angle in degrees and the given segment's length in centimeters.

(a) $m\angle UST =$ _____

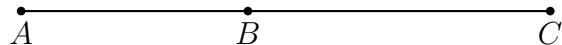
(b) $SU =$ _____

(c) Name a pair of opposite rays: _____



14. Given \overline{ABC} , $AB = 3x - 4$, $BC = x + 5$, $AC = 21$. Find BC .

(a) Sketch and label the situation



(b) Write a geometric equation: _____

(c) Substitute algebraic values: _____

(d) Solve for x

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

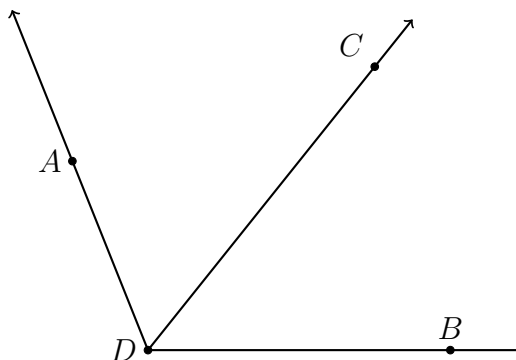
(e) Answer the question: Find BC by substituting for x .

$$BC = (\quad) + 5 = \underline{\hspace{2cm}}$$

(f) Check your answer

15. Given $\angle ADB$ with angle bisector \overrightarrow{DC} . $m\angle ADC = 5x - 5$, $m\angle BDC = 3x + 19$. Find $m\angle ADC$.

(a) Sketch and label the situation



(b) Write a geometric equation: _____

(c) Substitute algebraic values: _____

(d) Solve for x

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

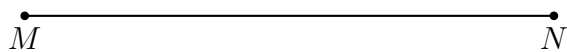
(e) Answer the question: Find $m\angle ADC$ by substituting for x .

$$m\angle ADC = \underline{\hspace{2cm}}$$

(f) Check your answer

16. Complete the construction of an equilateral triangle including the six steps.

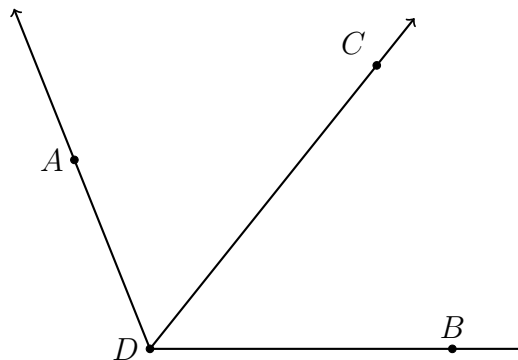
- (a) Given the line segment \overline{MN} .
- (b) Construct circle M with radius _____.
- (c) Construct circle _____ with radius _____.
- (d) Label the intersection P of the two circles.
- (e) Draw line segments _____ and _____.
- (f) $\triangle MNP$ is equilateral.



Spicy

15b. Given $\angle ADB$ with angle bisector \overrightarrow{DC} and $m\angle ADC = 5x - 5$, $m\angle ADB = 8x + 14$. Find $m\angle BDC$.

(a) Sketch and label the situation



(b) Write a geometric equation: _____

(c) Substitute algebraic values: _____

(d) Solve for x

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

(e) Answer the question: Find $m\angle BDC$

$$m\angle BDC = \underline{\hspace{2cm}}$$

(f) Check your answer

Spicy

16b. Complete the construction of an equilateral triangle including the six steps.

(a) Given the line segment \overline{MN} .

(b)

(c)

(d)

(e)

(f) $\triangle MNP$ is equilateral.

