

Unit 1.1 Angles Review

Evaluate each expression.

1) $\frac{12}{(4 - (-1 - -6)) \cdot 3}$

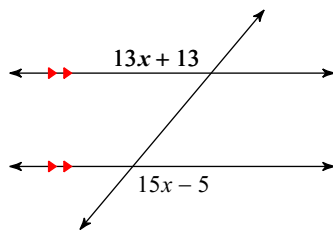
2) $\frac{8 \cdot 2}{-4} \cdot -2$

3) $\frac{4}{2 - 1 + 3 \cdot -1}$

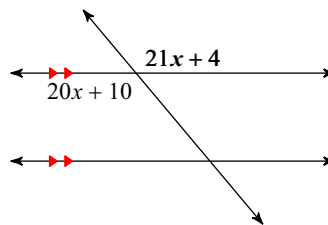
4) $-\frac{3 \cdot 3}{|-4 - -1|}$

Find the measure of BOTH angles indicated AND state the angle relationship.

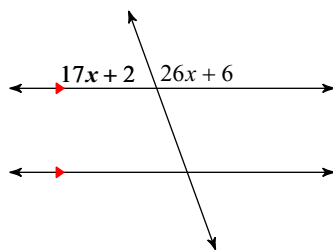
5)



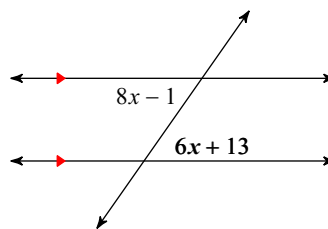
6)



7)

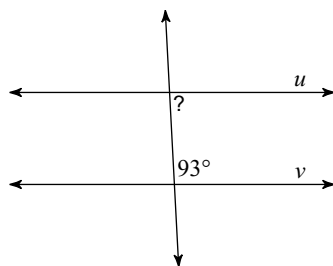


8)

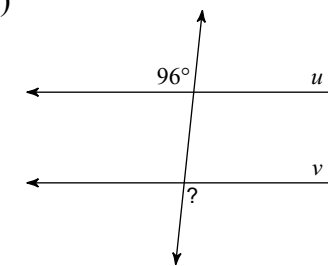


Prove that lines u and v are parallel.

9)



10)



Name the set or sets to which each number belongs to in the Real Number system.

11) $-\frac{15}{5}$

12) $\frac{75}{250}$

13) $\sqrt{4}$

14) $\frac{10}{2}$

15) $\sqrt{\frac{312}{2}}$

16) $\sqrt{0}$

Rational or Irrational?

17) $\sqrt{413} + \frac{42}{7}$

18) $\frac{3}{15} + \sqrt{81}$

19) $\frac{95}{5} \cdot \sqrt{729}$

20) $\sqrt{34} \cdot \sqrt{225}$

Simplify the radical expression.

21) $\sqrt{200x^3y^3}$

22) $\sqrt{70x}$

23) $\sqrt{196uv^3}$

24) $\sqrt{72x^2y^2}$

25) $\sqrt{125u^2v^4}$

26) $\sqrt{245x^4y}$

Find the other endpoint of the line segment with the given endpoint and midpoint.

27) Endpoint: $(-7, -1)$, midpoint: $(10, -1)$

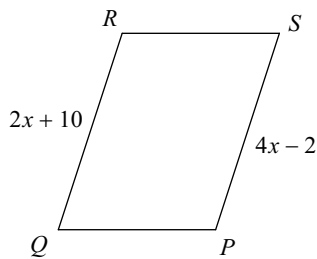
28) Endpoint: $(-10, 3)$, midpoint: $(4, 10)$

29) Determine the point that is $\frac{1}{3}$ the distance from the endpoint $(12, 10)$ of the segment with endpoints $(12, 10)$ AND $(-3, 1)$.

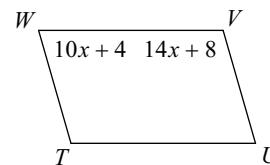
30) Determine the point that is $\frac{1}{4}$ the distance from the endpoint $(8, 2)$ of the segment with endpoints $(8, 2)$ AND $(-4, 8)$.

Find the measurement indicated in each parallelogram.

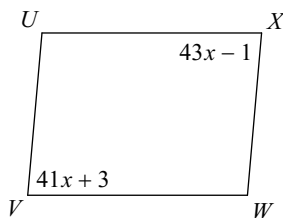
31) Find QR



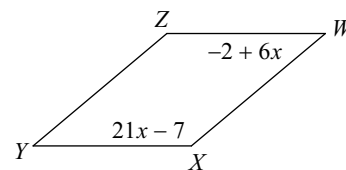
32) Find $m\angle T$



33) Find $m\angle V$

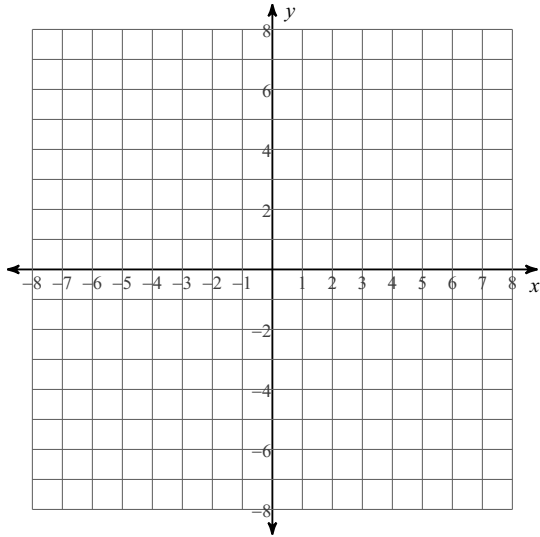


34) Find $m\angle W$



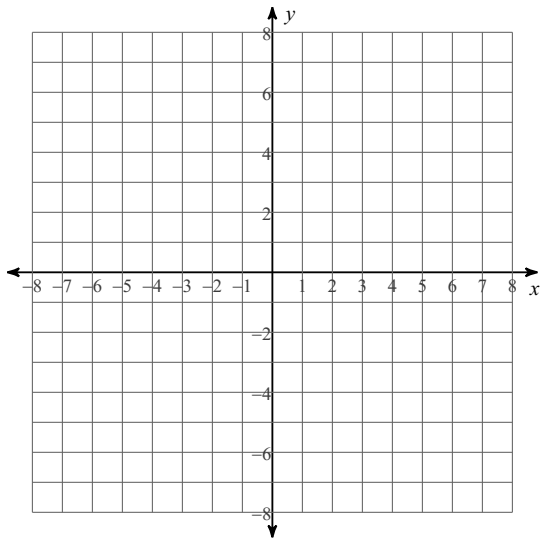
Determine if the quadrilateral is a parallelogram.

35) Draw quadrilateral $ABCD$ which has vertices $A(-1, 4)$, $B(4, 5)$, $C(2, 2)$ and $D(-3, 1)$.



36) Use DISTANCE and MIDPOINT to determine if the given vertices in #35 form a parallelogram.

37) Draw quadrilateral $JKLM$ with vertices $J(-2, 2)$, $K(0, 5)$, $L(2, 0)$ and $M(1, -1)$.



38) Use DISTANCE and SLOPE to determine if the given vertices in #37 form a parallelogram.