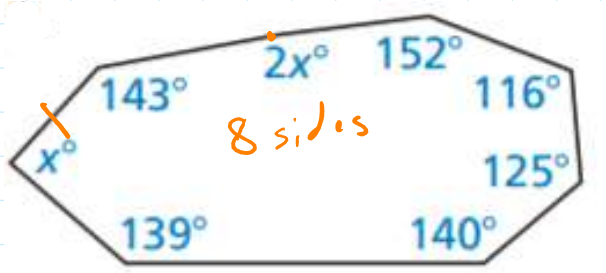
Quiz Review

Find the value of x. Show your work.



8 sides

$(n-2)180$

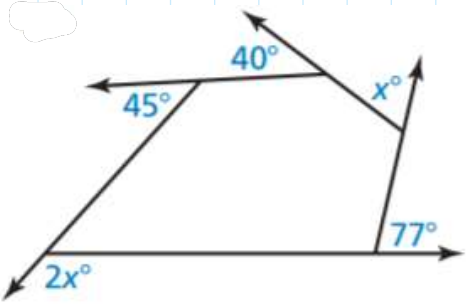
$(8-2)180 = 1080$

$143 + 2x + 152 + 116 + 125 + 140 + 135 + x = 1080$

$815 + 3x = 1080$

$3x = 265$

$x = 88\frac{1}{3}$



$40 + 45 + 2x + 77 + x = 360$

$162 + 3x = 360$

$3x = 198$

$x = 66$

Find the measure of each interior angle and each exterior angle of the indicated regular polygon.

19-gon

$(19-2)180$

$3060°$

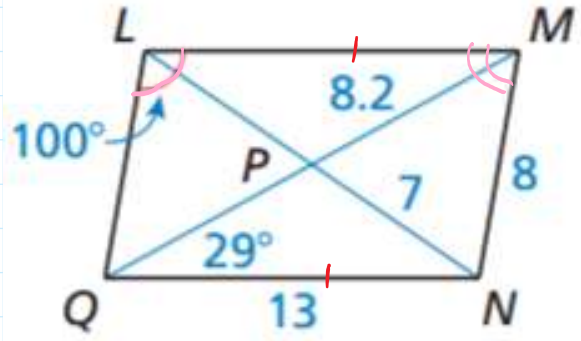
Octagon

$(8-2)180$

$6 \cdot 180$

$1080°$

LMNQ is a parallelogram. Find the indicated measures.



LM= 13

$m\angle LMN =$ 80°

$180 = 100 + m$

$80 = m$

LN= 14

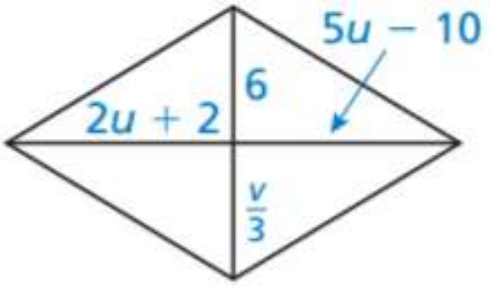
$7+7=14$

$m\angle QMN =$ 51°

$80 - 29$

51

Solve for each variable assuming that the shape provided is a parallelogram.



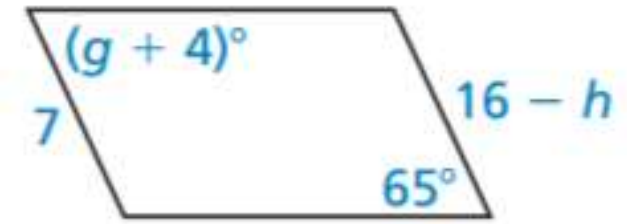
$2u+2=5u-16$

$12=3u$

$4=u$

$3\cdot 6=\frac{v}{3}\cdot 3$

$18=v$



$g+4=65$

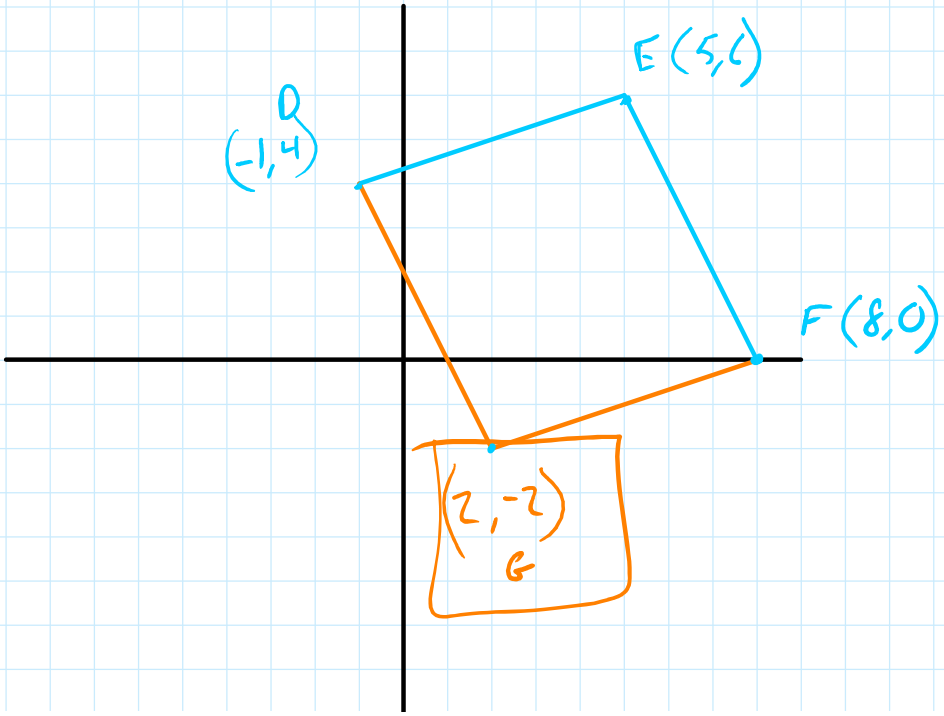
$g=61$

$7=16-h$

$-9=-h$

$9=h$

Three vertices of parallelogram DEFG are given. Find the remaining vertex.
D(-1, 4), E(5, 6), F(8, 0)

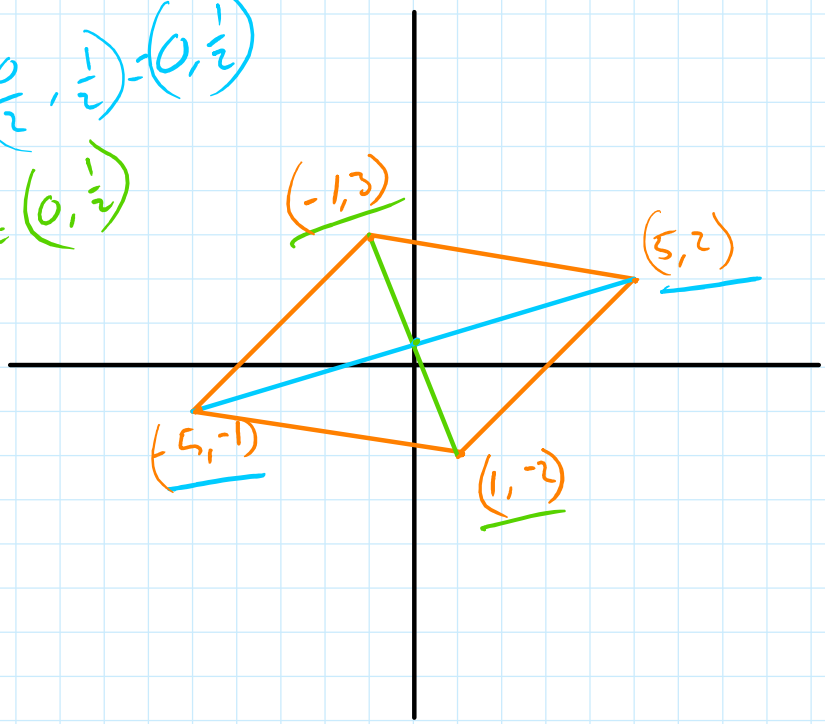


List the coordinates of the intersection of the diagonals of parallelogram QRST
Q(-1, 3), R(5, 2), S(1, -2), T(-5, -1)

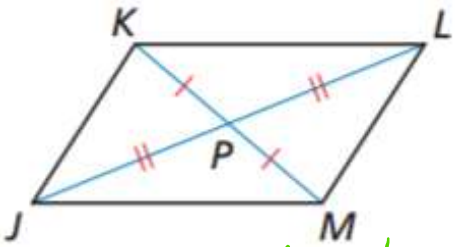
$\left(\frac{-5+5}{2}, \frac{-1+2}{2}\right) = \left(\frac{0}{2}, \frac{1}{2}\right) = \left(0, \frac{1}{2}\right)$

$\left(\frac{-1+1}{2}, \frac{3+-2}{2}\right) = \left(\frac{0}{2}, \frac{1}{2}\right) = \left(0, \frac{1}{2}\right)$

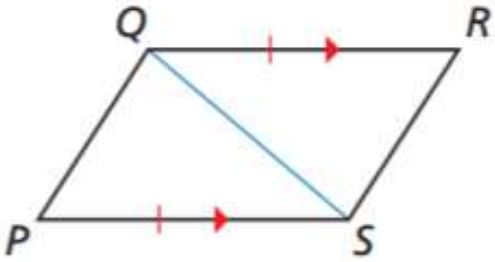
$\left(0, \frac{1}{2}\right)$



Is the quadrilateral a parallelogram? If so, give a reason.



yes, the diagonals bisect one another.



yes, 1 pair of opposite sides are both parallel and congruent.

Graph the quadrilateral with the given vertices in a coordinate plane. Then show that the quadrilateral is a parallelogram.

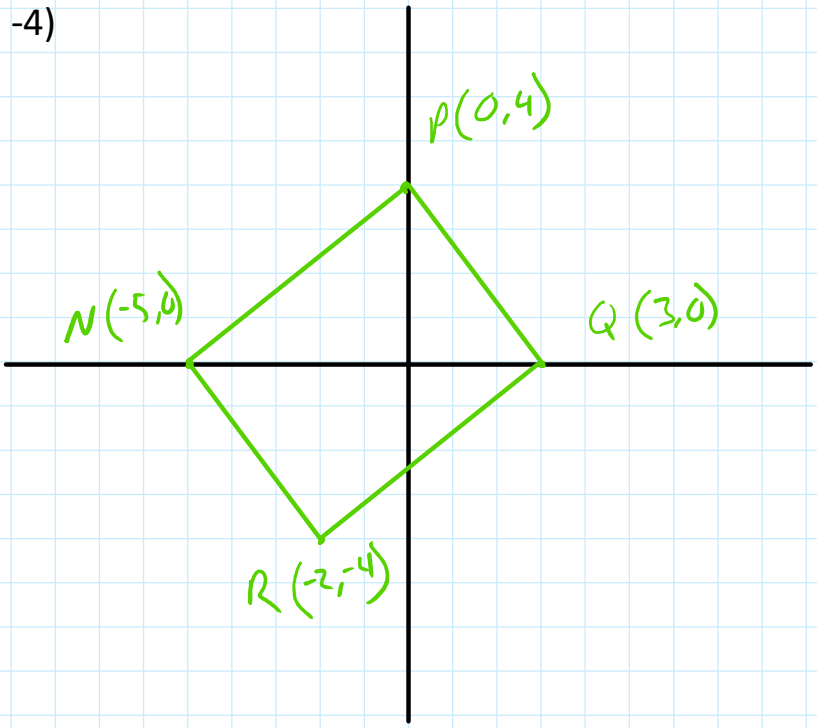
N(-5, 0), P(0, 4), Q(3, 0), R(-2, -4)

$m\overline{NP} = \frac{4}{5}$

$m\overline{RQ} = \frac{4}{5}$

$m\overline{NR} = \frac{-4}{3}$

$m\overline{PQ} = \frac{-4}{3}$



14 Questions total

Good Luck!