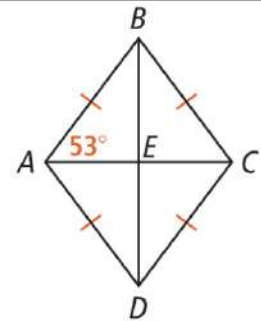


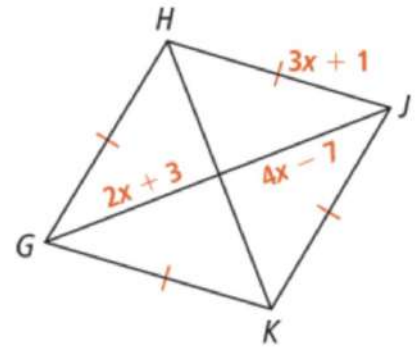
Quadrilateral $ABCD$ is a rhombus. What is $m\angle ADE$?

SOLUTION



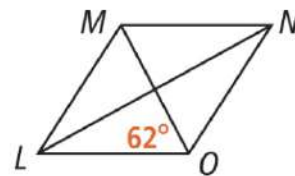
Quadrilateral $GHJK$ is a rhombus. What is GH ?

SOLUTION



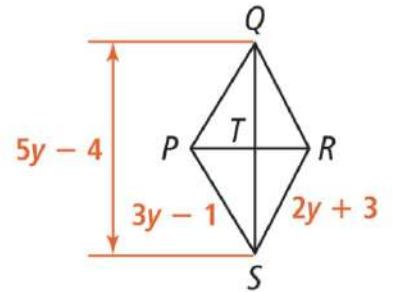
2. a. The quadrilateral is a rhombus. What is $m\angle MNO$?

Enter your answer.



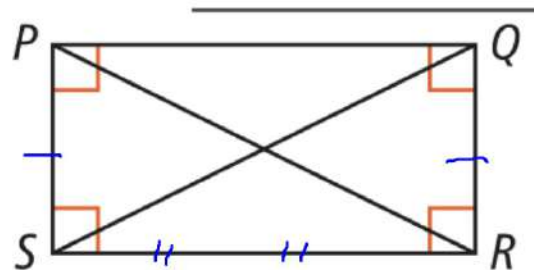
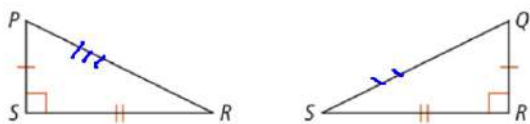
The quadrilateral is a rhombus. What is QT ?

Enter your answer.



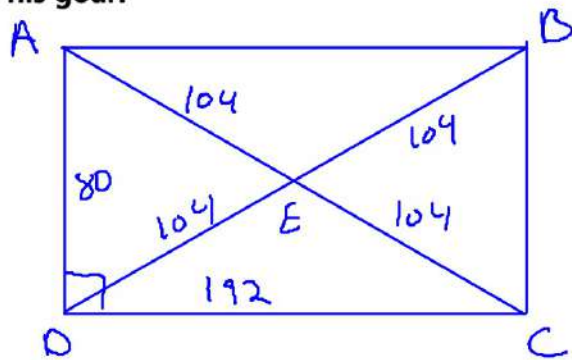
Given: $PQRS$ is a rectangle.

Prove: $\overline{PR} \cong \overline{QS}$



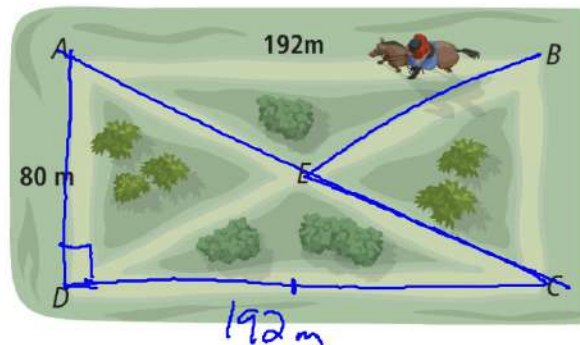
Statements	Reasons
1) $PQRS$ is Rectangle	1) Given
2) $\overline{PS} \cong \overline{QR}$	2) Opposite sides of $\square \cong$.
3) $\overline{SR} \cong \overline{SR}$	3) Reflexive prop.
4) $\angle PSR + \angle QRS$ are Rt \angle 's	4) Def of Rectangle
5) $\angle PSR \cong \angle QRS$	5) All Right \angle 's \cong .
6) $\triangle PSR \cong \triangle QRS$	6) SAS
7) $\overline{PR} \cong \overline{QS}$	7) CPCTC
8)	8)

Paul is training his horse to run the course at a pace of 4 meters per second or faster. Paul rides his horse from D to C to E to B in 1 minute 30 seconds. The figure $ABCD$ is a rectangle. Did he make his goal?



$$1 \text{ min} = 60 \text{ sec}$$

$$+ 30 = 90 \text{ sec}$$



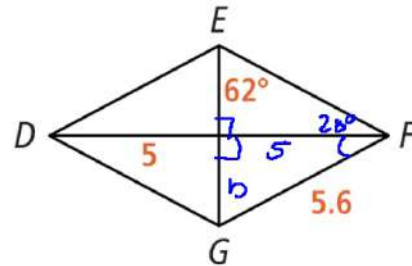
$$80^2 + 192^2 = AC^2$$

$$192 + 104 + 104 = 400$$

$$\frac{400}{90} = 4.\bar{4} \text{ m/sec}$$

Use rhombus $DEFG$ to find DF . $=10$

Enter your answer.



Use rhombus $DEFG$ to find $m\angle DFG$.

$$28^\circ$$

Use rhombus $DEFG$ to find EG .

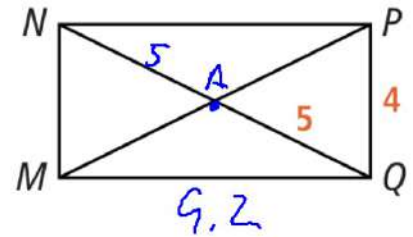
$$5^2 + b^2 = 5.6^2$$

$$b = 2.52$$

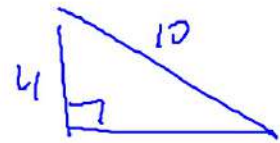
$$EG = 5.04$$

Use rectangle $MNPQ$ to find MP . ≈ 10

Enter your answer.



8. Use rectangle $MNPQ$ to find MQ . Round to the nearest tenth.



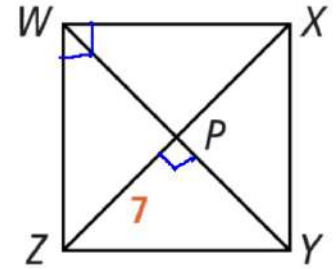
$$10^2 - 4^2 = m^2$$

$$84 = m^2$$

$$m = \sqrt{84} \\ = 9.2$$

Use square $WXYZ$ to find $m\angle YPZ$. = 90°

Enter your answer.



Use square $WXYZ$ to find $m\angle XWP$.

45°

Use square $WXYZ$ to find XZ .

14

What is the value of x ?

Enter your answer.

