

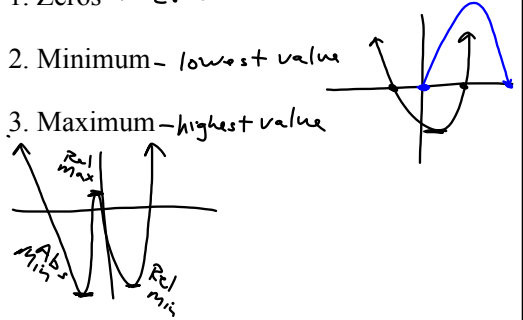
Define each.

1. Zeros
2. Minimum
3. Maximum

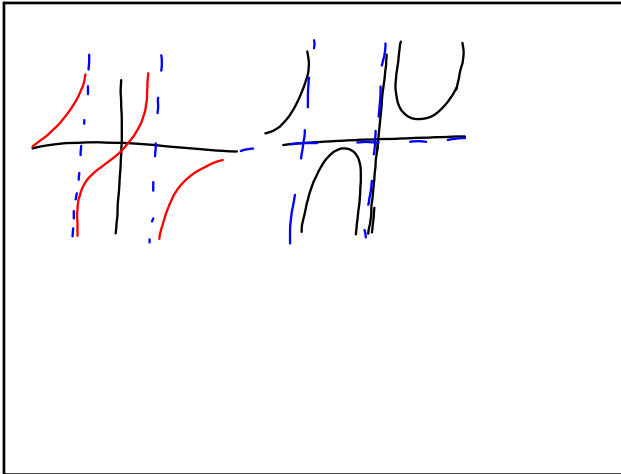
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Define each.

1. Zeros - crosses x axis
2. Minimum - lowest value
3. Maximum - highest value



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Feb 26-8:28 AM

Properties of Quadrilaterals

Quadrilateral - four sided shape with connected vertices.



Consecutive sides - sides that are next to each other

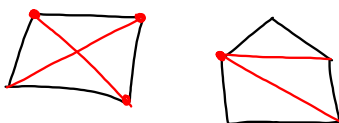
Consecutive Angles - angles that are next to each other  
(Vertices)  
Vertex

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Nonconsecutive sides - sides not next to each other.

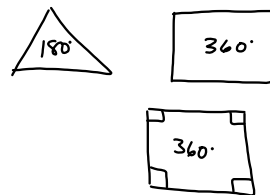
Nonconsecutive angles - angles not next to each other.

Diagonal - segment that connects nonconsecutive angles (vertices)



Feb 26-8:45 AM

Sum of a quadrilateral is  $360^\circ$



Feb 26-8:48 AM

$$\begin{array}{r} 70 \\ 130 \\ \hline 200 \end{array} \quad \begin{array}{r} 360 \\ -290 \\ \hline 70 \end{array}$$

Feb 26-8:49 AM

$$\begin{array}{r} x + 124 + x + 20 + 90 = 360 \\ 2x + 234 = 360 \\ -234 \quad -234 \\ \hline 2x = 126 \end{array} \quad x = 63$$

Feb 26-8:50 AM

13. opposite Angles  
 $\angle Z \cong \angle X$   
 $\angle W \cong \angle Y$

14. Consecutive Vertices  
 $W \cong Z, W \cong X$   
 $Y \cong Z, Y \cong X$

10. All pairs of opposite sides  
 $\overline{WX} \cong \overline{ZY}$      $\overline{WZ} \cong \overline{XY}$

11. Diagonals  
 $\overline{XZ} \cong \overline{WY}$

12. Consecutive angles  
 $\angle W \cong \angle X, \angle W \cong \angle Z, \angle Z \cong \angle Y$   
 $\angle Y \cong \angle X$

Feb 26-8:52 AM

15.  $\begin{array}{r} 118 \\ 86 \\ \hline 204 \end{array} \quad \begin{array}{r} 360 \\ -282 \\ \hline 78 \end{array}$

16.  $\begin{array}{r} 42 \\ 44 \\ \hline 86 \end{array} \quad \begin{array}{r} 360 \\ -223 \\ \hline 137 \end{array}$

17.  $\begin{array}{r} 133 \\ 89 \\ \hline 222 \end{array} \quad \begin{array}{r} 360 \\ -313 \\ \hline 47 \end{array}$

18.  $122 + 90 + 3x + x = 360$   
 $4x + 212 = 360$   
 $-212 \quad -212$   
 $\hline 4x = 148$   
 $\frac{4x}{4} = \frac{148}{4}$   
 $x = 37 \quad 3x = 111$

19.  $x + x + 50 + 125 + 105 = 360$   
 $2x + 280 = 360$   
 $\frac{2x}{2} = \frac{80}{2} \quad x + 50 = 90$   
 $x = 40$

Feb 26-8:57 AM

20.  $x - 30 + x + x - 30 + x = 360$   
 $4x - 60 = 360$   
 $\quad +60 \quad +60$   
 $\hline 4x = 420$   
 $\frac{4x}{4} = \frac{420}{4}$   
 $x = 105 \quad 105 - 30 = 75$

Feb 26-9:01 AM