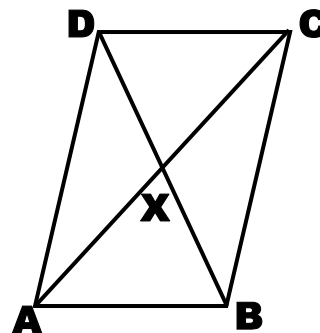


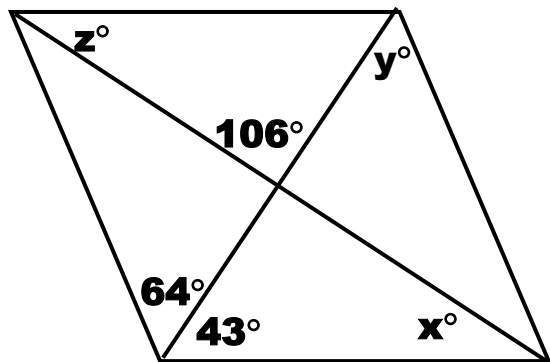
TOPIC 11-4: QUADRILATERALS & ALGEBRA

EXAMPLE 1: ABCD is a parallelogram. Find each of the following.

- a) If $AD = 10$, then $BC =$ _____
- b) If $AC = 15$, then $AX =$ _____
- c) If $\angle CDA = 111^\circ$, then $m\angle ABC =$ _____
- d) If $m\angle DAB = 54^\circ$, then $m\angle ABC =$ _____



EXAMPLE 2: Find the values of 'x', 'y', and 'z' for the parallelogram below.

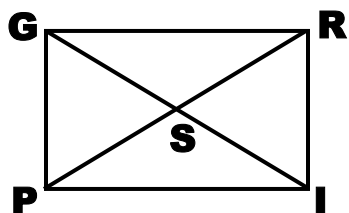


$x =$ _____

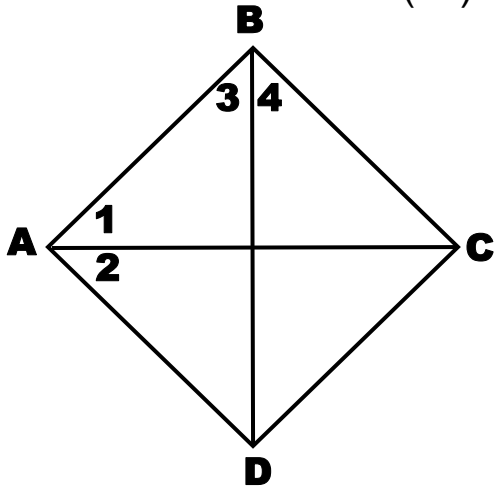
$y =$ _____

$z =$ _____

EXAMPLE 3: GRIP is a rectangle. If $PS = 6x - 4$ and $GI = 28$, find 'x'.

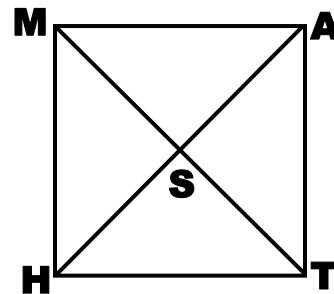


EXAMPLE 4: ABCD is a rhombus. If $m\angle 3 = (6x + 16)^\circ$ and $m\angle 4 = (8x)^\circ$, then find $m\angle 2$.



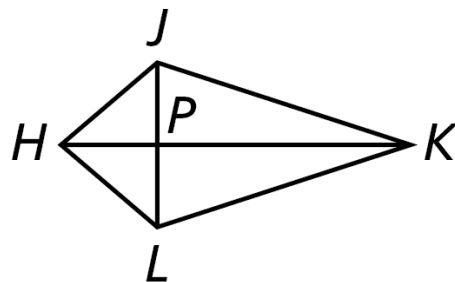
EXAMPLE 5: MATH is a square.

- a) If $MA = 8$, then $AT =$ _____
- b) $m\angle HST =$ _____
- c) $m\angle MAT =$ _____
- d) $m\angle MHS =$ _____
- e) If $HS = 2$, then $HA =$ _____ and $MT =$ _____

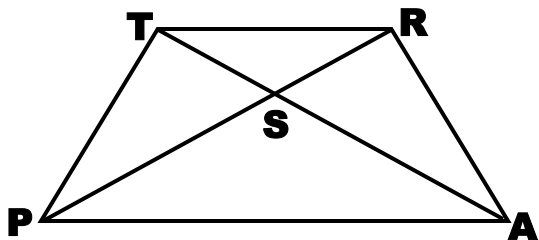


EXAMPLE 6: In Kite HJKL, $m\angle JKP = 25^\circ$, and $m\angle JHP = 57^\circ$. Find each measure.

- a) $m\angle HJP =$
- b) $m\angle KJP =$
- c) $m\angle HLK =$



EXAMPLE 7: TRAP is an isosceles trapezoid. $PR = 3x - 7$ and $TA = 20$. Find the value of 'x'.



EXAMPLE 8: STAR is a trapezoid with median \overline{ME} . Find the value of 'x'.

