

Given parallelogram ABCD, complete each statement. **SHOW ALL TO RECEIVE CREDIT.**

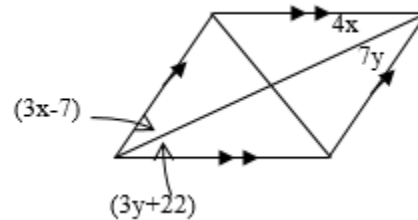
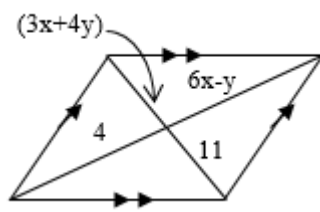
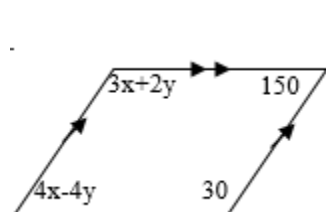
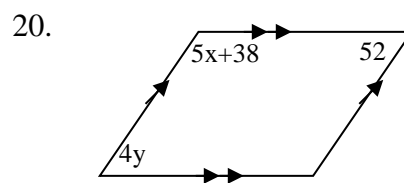
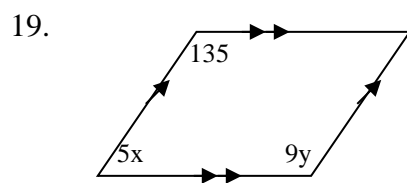
13. If  $AD = \frac{x}{2}$ ,  $BC = 2x - 12$ ,  $BC = ?$

14. If  $m\angle ABC = 2(m\angle BCD)$ ,  $m\angle ADC = ?$

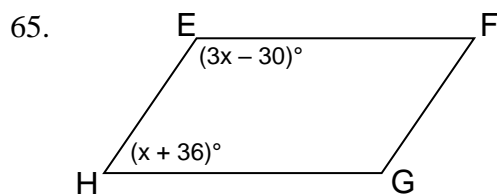
15. If  $m\angle B = x - 40$ ,  $m\angle D = \frac{3x}{4}$ ,  $m\angle B = ?$

16. If  $m\angle A = 4x + 11$ ,  $m\angle B = 6x - 1$ ,  $m\angle C = ?$

Find x and y. Show all work neatly.

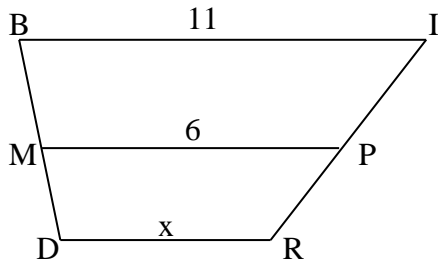


Given: Parallelogram EFGH. Find the measure of the designated angles.

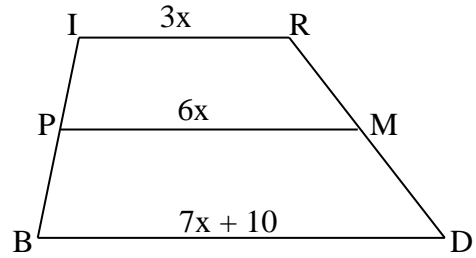


**Given: Trapezoid BIRD with midpoints M and P. Find x.**

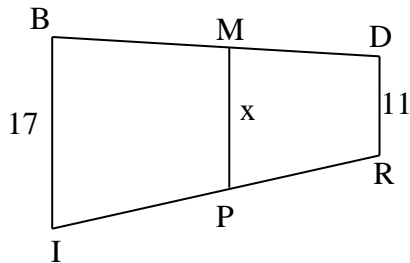
72.  $x = \underline{\hspace{2cm}}$



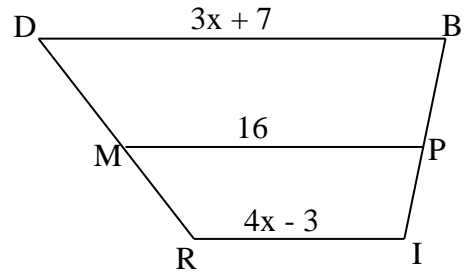
73.  $x = \underline{\hspace{2cm}}$



74.  $x = \underline{\hspace{2cm}}$



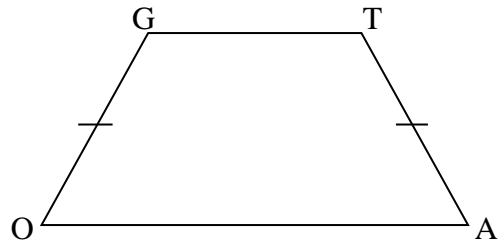
75.  $x = \underline{\hspace{2cm}}$



**Given: Trapezoid GOAT with  $m\angle TGO = 123^\circ$ .**

76.  $m\angle AOG = \underline{\hspace{2cm}}$

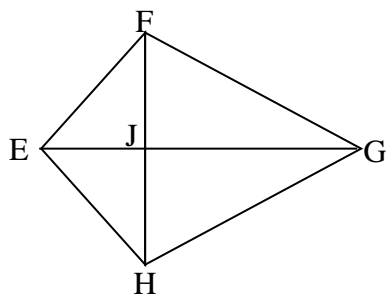
77.  $m\angle OAT = \underline{\hspace{2cm}}$



**Given Kite EFGH**

78. Find all angle measures

$m\angle FHG = 68, m\angle FEH = 62$



79. Find the perimeter.

$FH = 34, \overline{EJ} = 9, \overline{EG} = 23$

