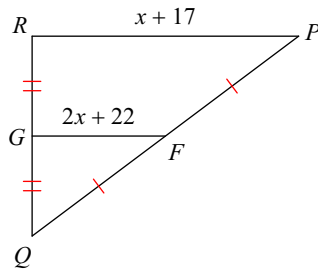


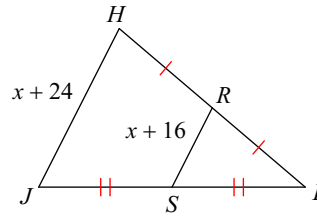
Midsegments/Angle Bisectors/Medians

Solve for x .

1)



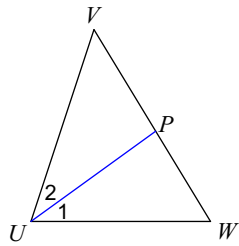
2)



Each figure shows a triangle with one of its angle bisectors.

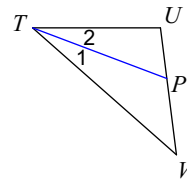
3) $m\angle 1 = 4x - 4$ and $m\angle 2 = 3x + 6$.

Find x .



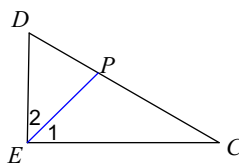
4) $m\angle 2 = 20x$ and $m\angle 1 = 21x - 1$.

Find x .



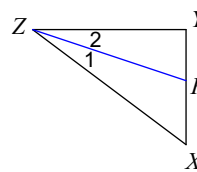
5) $m\angle 2 = 5x + 9$ and $m\angle 1 = 7x - 5$.

Find x .



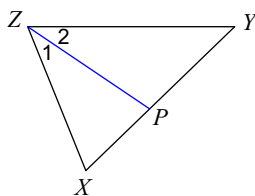
6) Find x if $m\angle 2 = 4x - 2$ and

$m\angle 1 = 2x + 8$.



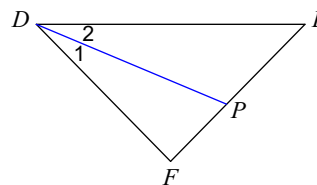
7) $m\angle 2 = 3x + 13$ and $m\angle XZY = 8x + 12$.

Find $m\angle 1$.



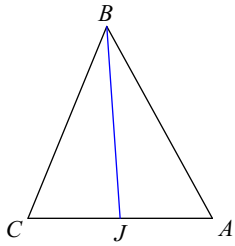
8) $m\angle 1 = 3x + 5$ and $m\angle FDE = -2 + 8x$.

Find $m\angle 2$.

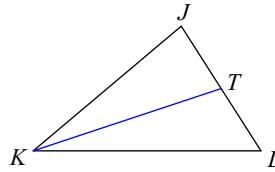


Each figure shows a triangle with one or more of its medians.

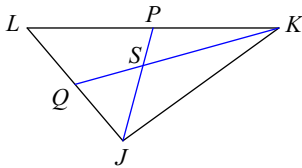
9) Find x if $JA = 2x - 9$ and $JC = x$



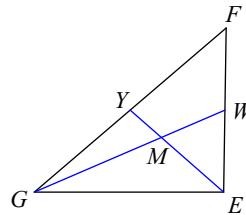
10) Find x if $TJ = \frac{1}{2} + x$ and $TL = \frac{x + 6}{2}$



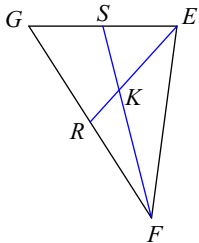
11) Find x if $KS = 2x$ and $KQ = 2x + 2$



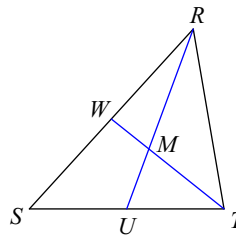
12) Find x if $EM = 2x$ and $MY = 2x - 1$



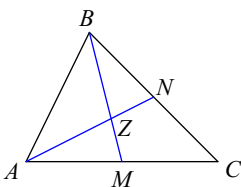
13) Find x if $FK = x + 8$ and $KS = x + 1$



14) Find x if $RM = 2x - 3$ and $MU = \frac{x}{2}$



15) Find ZN if $AZ = 3x - 1$ and $ZN = \frac{1}{2}x + \frac{7}{2}$



16) Find ID if $LI = 4x - 8$ and $LD = 5x - 4$

