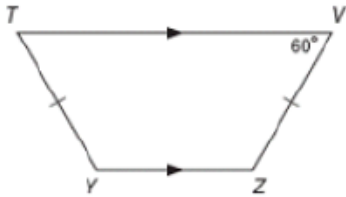


Name _____

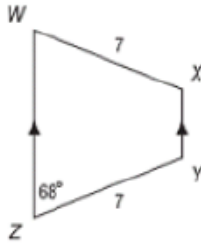
Date _____

Find each measure.

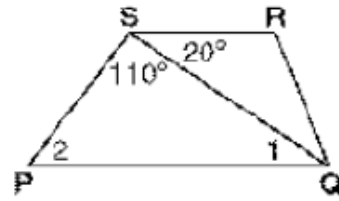
1) $m\angle T$



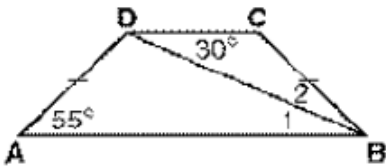
2) $m\angle Y$



3) Trapezoid PQRS. Find the $m\angle 1$ and $\angle 2$.

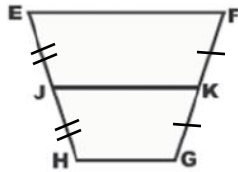


4) ABCD is an isosceles trapezoid. Find the $m\angle 1$ and $\angle 2$.

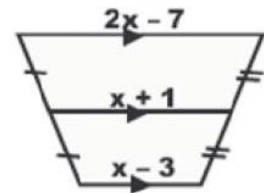


5) MATH is an isosceles trapezoid with $\overline{AT} \parallel \overline{MH}$. If $m\angle M = 3x - 9$ and $m\angle H = x + 3$ find x .

6) If $EH = FG$, and $m\angle E = 65$, then what is $m\angle G$ and $m\angle GKJ$?



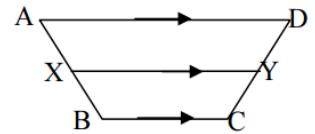
7) Find the value of x .



Use the diagram of Isosceles trapezoid ABCD. \overline{XY} is the midsegment. Explain your reasoning.

8) If $AX = 4$, then $CD =$ ____.

9) If $m\angle ABC = 110$, then $m\angle BAD =$ ____.



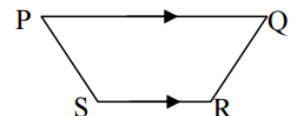
10) If $m\angle BAD = 65$, then $m\angle CDA =$ ____.

11) If $m\angle DCB = 105$, then $m\angle DAB =$ ____.

PQRS is an isosceles trapezoid.

12) Name the bases

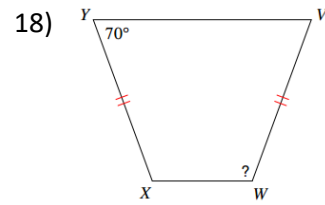
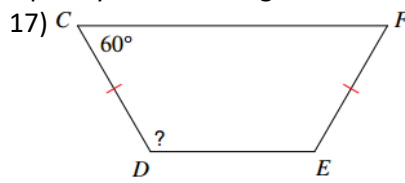
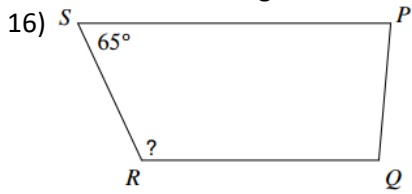
13) Name the legs



14) Name two pairs of congruent angles

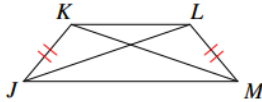
15) Name a pair of congruent segments

Find the indicated angle measurement. Explain your reasoning.

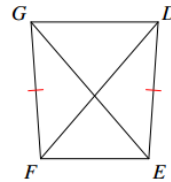


Find the length indicated for each trapezoid. Explain your reasoning.

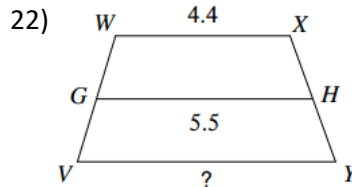
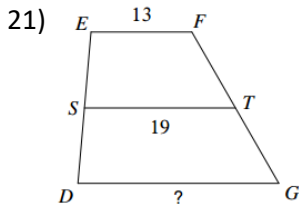
19) $KM = 22$
Find JL



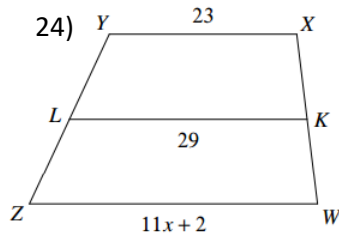
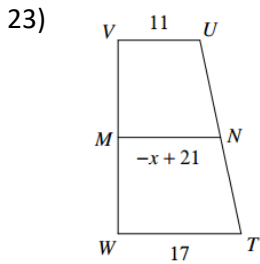
20) $DF = 8.7$
Find EG



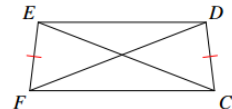
Find the length of the base indicated for each trapezoid.



Solve for x . Each figure is a trapezoid.



25) $EC = 20$
 $FD = 5x - 10$



26) A given trapezoid has one base that measures x^2 , a second base that measures 34, and a midsegment that measures $10x - 1$. Find x .

27) Classify the quadrilateral defined by points: $W(-1, 2)$, $X(3, 0)$, $Y(4, -3)$, $Z(-4, 1)$