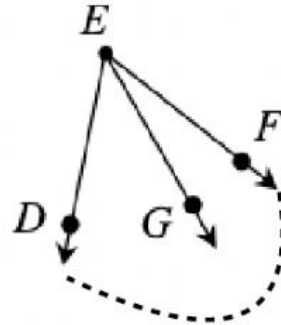


## Angle Addition Postulate with Algebra Practice

Problem 1:

If  $m\angle DEF = 7x + 4$ ,  $m\angle DEG = 5x + 1$  and  $m\angle GEF = 23$ , find  $x$

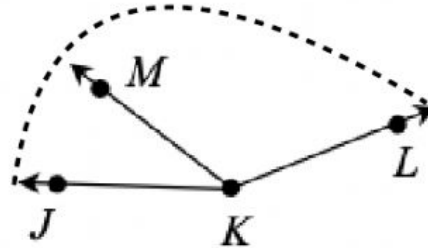
$$m\angle \underline{\hspace{1cm}} + m\angle \underline{\hspace{1cm}} = m\angle \underline{\hspace{1cm}}$$



Problem 2:

If  $m\angle JKM = 43$ ,  $m\angle M = 8x - 20$  and  $m\angle JKL = 10x - 11$ , find  $x$

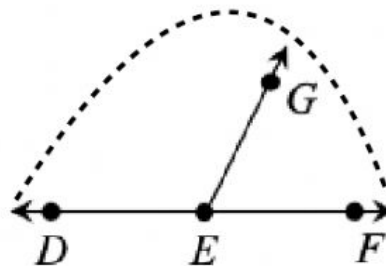
$$m\angle \underline{\hspace{1cm}} + m\angle \underline{\hspace{1cm}} = m\angle \underline{\hspace{1cm}}$$



Problem 3:

If  $m\angle DEF$  is a straight angle,  $m\angle DEG = 23x - 2$  and  $m\angle GEF = 12x + 8$ , find  $x$

$$m\angle \underline{\hspace{1cm}} + m\angle \underline{\hspace{1cm}} = m\angle \underline{\hspace{1cm}}$$

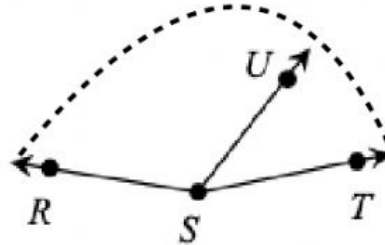


## Angle Addition Postulate with Algebra Practice

Problem 4:

If  $m\angle RST = 12x - 1$ ,  $m\angle RSU = 9x - 15$  and  $m\angle UST = 53$ , find  $m\angle RSU$

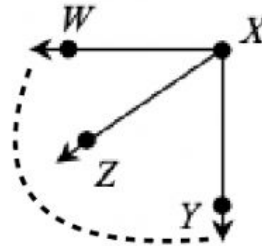
$$m\angle \underline{\hspace{1cm}} + m\angle \underline{\hspace{1cm}} = m\angle \underline{\hspace{1cm}}$$



Problem 5:

If  $m\angle WXZ = 5x + 3$ ,  $m\angle ZXY = 8x - 4$ , and  $\angle WXY$  is a right angle, find  $m\angle WXZ$

$$m\angle \underline{\hspace{1cm}} + m\angle \underline{\hspace{1cm}} = m\angle \underline{\hspace{1cm}}$$



Problem 6:

If  $m\angle TUW = 5x + 3$ ,  $m\angle WUV = 10x - 5$  and  $m\angle TUV = 17x - 16$ , find  $m\angle TUW$

$$m\angle \underline{\hspace{1cm}} + m\angle \underline{\hspace{1cm}} = m\angle \underline{\hspace{1cm}}$$

