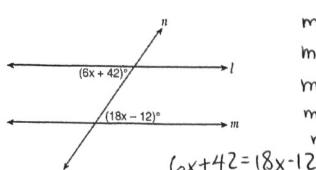
7 Line n intersects lines l and m, forming the angles shown in the diagram below.



54-12X

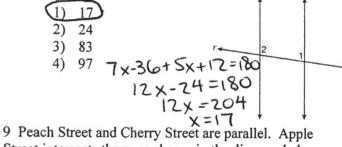
4.5=X

Which value of x would prove  $l \parallel m$ ?

- Lines p and q are intersected by line r, as shown below. If  $m \angle 1 = 7x - 36$  and  $m \angle 2 = 5x + 12$ , for which value of x would  $p \parallel q$ ?

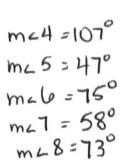


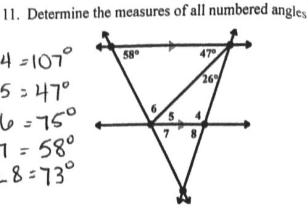
- 83



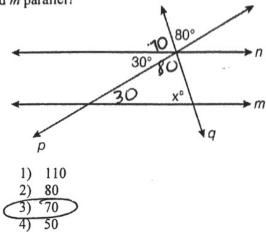
8x=184

Street intersects them, as shown in the diagram below. If  $m\angle 1 = 2x + 36$  and  $m\angle 2 = 7x - 9$ , what is  $m\angle 1$ ?

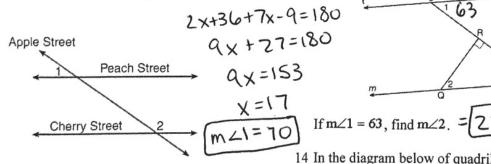




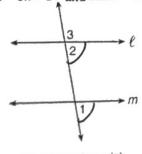
In the diagram below, lines n and m are cut by transversals p and q. What value of x would make lines n and m parallel?



13 In the diagram below,  $\ell \parallel m$  and  $\overline{QR} \perp \overline{ST}$  at R.

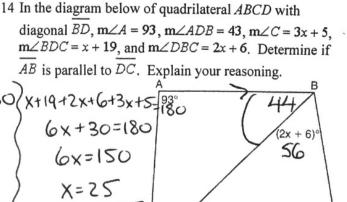


In the diagram below, line  $\ell$  is parallel to line m, 10 and line w is a transversal. If  $m \angle 2 = 3x + 17$  and  $m \angle 3 = 5x - 21$ , what is  $m \angle 1$ ?



(Not drawn to scale)

3x+17+5x-21=180(x+19+2x+6+3x+5=180) 8x-4=180



X = 23m < 2 = 3(23) + 17) yes, AB 11 DC 43° 44 because alt. (x + 19)° are congruent.

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