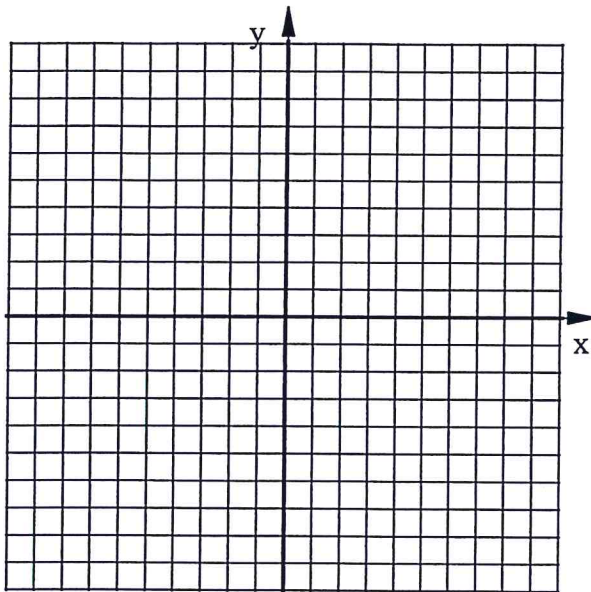
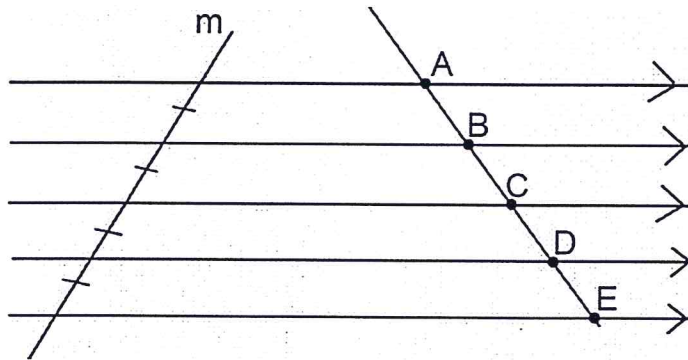


Bellwork Geometry Tuesday, January 28, 2020

1. Use these coordinates of A, B, and C: $A(1, -2)$ $B(3, 2)$ $C(5, -1)$
Find three different coordinates of pt D such that ABCD is a parallelogram.



2. Given: These parallel lines cut transversal m into congruent segments.

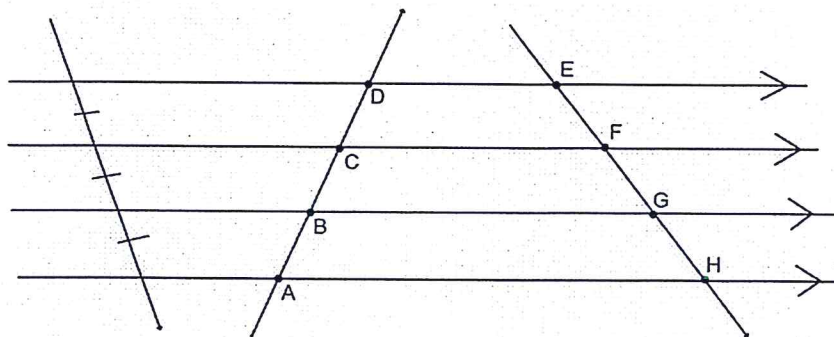


If $BE = 12$ find the following:

a) AC

b) AE

3. Use the figure below showing 4 parallel lines:

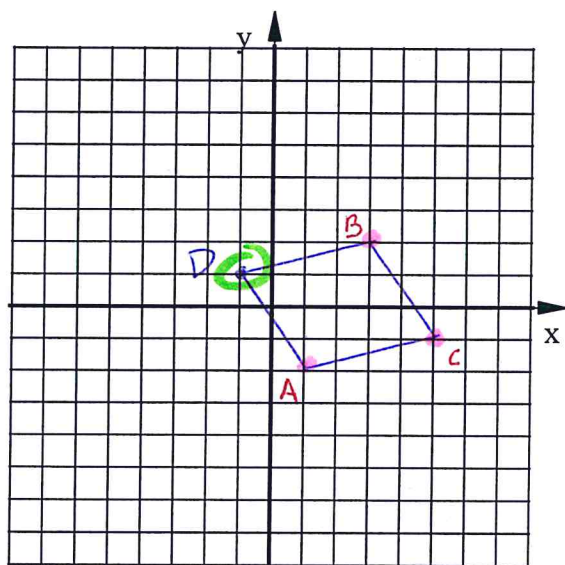
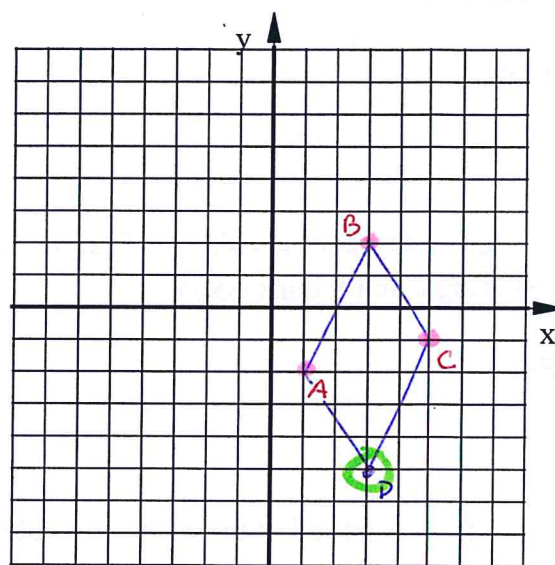
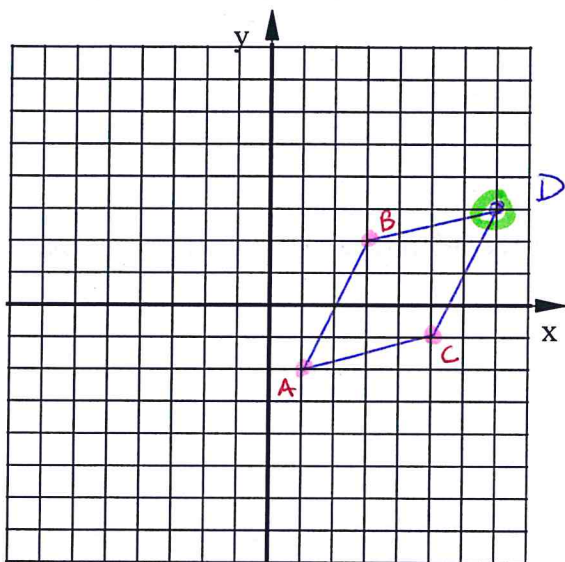


Given: $AD = 4x + 18$, $EG = 6x + 3$, and $BC = 2x + 3$. Find GH .

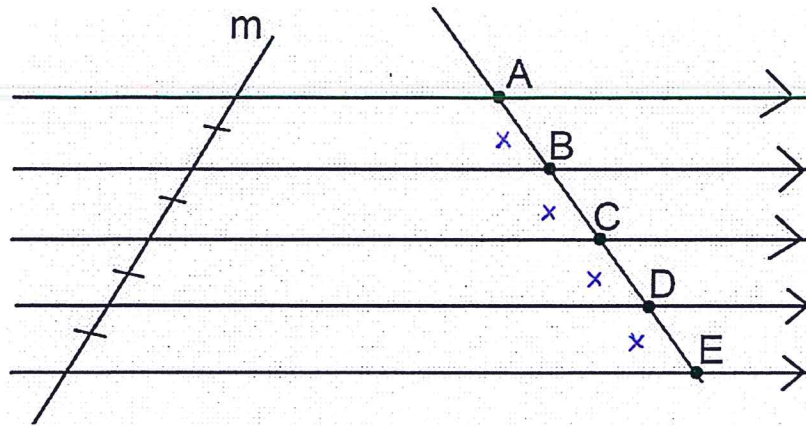
Bellwork Geometry Tuesday, January 28, 2020

1. Use these coordinates of A, B, and C: $A(1, -2)$ $B(3, 2)$ $C(5, -1)$
Find three different coordinates of pt D such that ABCD is a parallelogram.

ANSWERS



2. Given: These parallel lines cut transversal m into congruent segments.



$$AB = BC = CD = DE$$

Label each x

If $BE = 12$ find the following:

a) AC

b) AE

$$BE = 3x$$

$$12 = 3x$$

$$\underline{\underline{x = 4}}$$

$$AC = 2x$$

$$AC = 2(4)$$

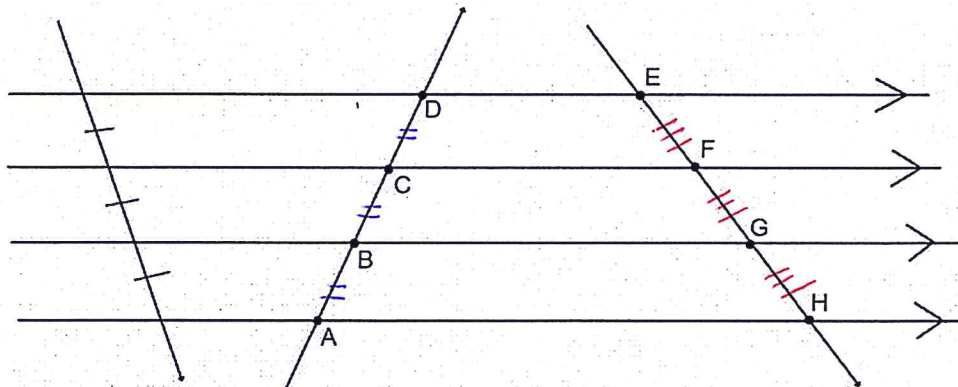
$$\boxed{AC = 8}$$

$$AE = 4x$$

$$AE = 4(4)$$

$$\boxed{AE = 16}$$

3. Use the figure below showing 4 parallel lines:



Given: $AD = 4x + 18$, $EG = 6x + 3$, and $BC = 2x + 3$. Find GH .

$$AB = BC = CD$$

$$AD = BE = 3$$

$$4x + 18 = (2x + 3)3$$

$$4x + 18 = 6x + 9$$

$$18 = 2x + 9$$

$$\frac{9}{2} = \frac{2x}{2}$$

$$\underline{\underline{x = 4.5}}$$

$$EF = FG = GH$$

$$\frac{EG}{2} = \frac{GH \cdot 2}{2}$$

$$GH = \frac{EG}{2}$$

$$= \frac{(6x + 3)}{2}$$

$$\boxed{GH = 15}$$

$$= \frac{6(4.5) + 3}{2}$$

$$= 30/2$$