Do Now

Tell whether each point is a solution to the linear function

1) x + y = -5

(-8, 2)

$(-8)+(2)=-5$

$-6 \neq -5$

NOT A SOLUTION

2) 2x - 3y = 4

(-4, -4)

$2(-4)-3(-4)=4$

$-8+12=4$

$4=4$

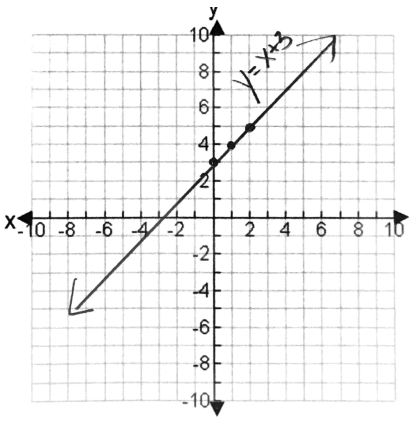
Yes a Solution

May 30-6:43 AM

1. C
3. C
5. B
7. B
9. C
11. C
13. D
15. B
17. A
19. X-intercept = 2

y-intercept = 8

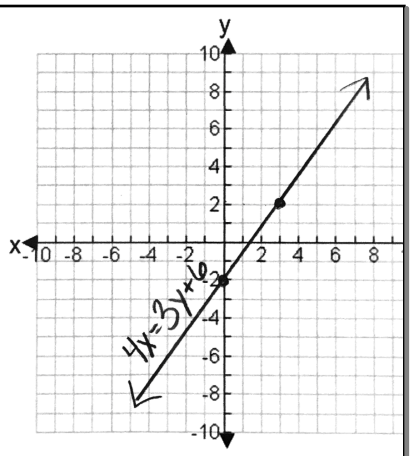
21.



23. $y = \frac{4}{3}$

m = $\frac{4}{3}$

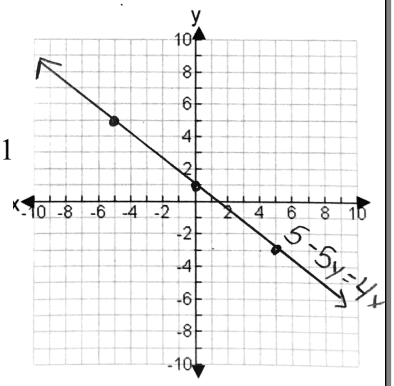
b = -2



25. $y = \frac{-4}{5}x + 1$

m = $\frac{-4}{5}$

b = 1



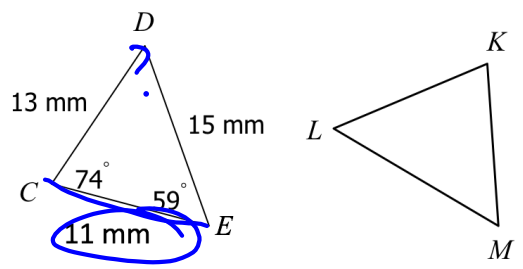
May 22-6:50 PM

Transformation Topics

- Congruent Polygons
- Translations - Slide
  - > Right (x, y) →(x + a, y)
  - > Left (x, y) → (x - a, y)
  - > Up (x, y)→ (x, y + a)
  - > Down (x, y)→ (x, y - a)
- Reflections
  - > Over x-axis (x, y) → (x, -y)
  - > Over y-axis (x, y) → (-x, y)
- Rotations
  - > Counterclockwise 270° (x, y) → (y, -x)
  - > Counterclockwise 90° (x, y) → (-y, x)
  - > Counterclockwise 180° (x, y) → (-x, -y)
    Clockwise 180°
- Dilations
  - > Multiply by the k factor

Aug 30-12:01 PM

1. If ΔCDE ≅ Δ KLM, find each measure.



74 + 59 = 133

180 - 133 = 47

m<K = 74°

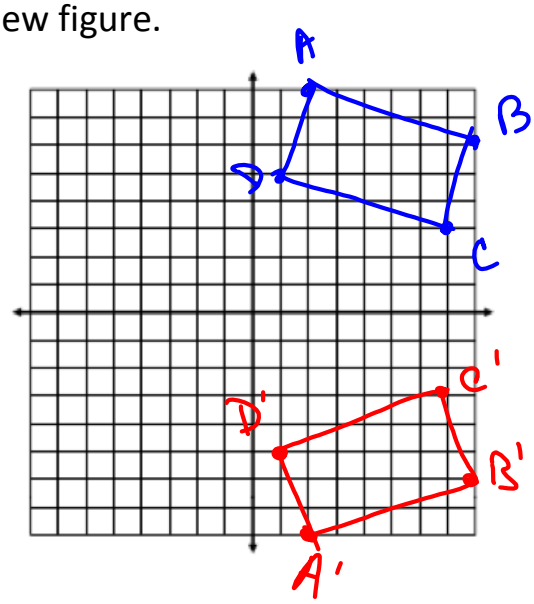
m<L = 47°

KM = 11mm

LK = 13mm

May 22-8:10 PM

2. Draw Rectangle *ABCD* with vertices *A*(2, 8), *B*(8, 6), *C*(7, 3), and *D*(1, 5); then reflect in the *x*-axis. Write the coordinates of the new figure.



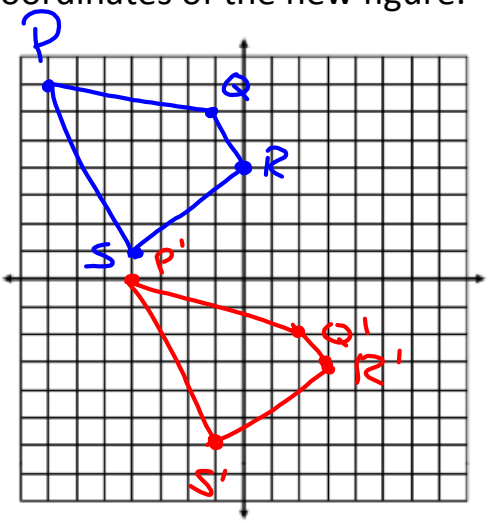
A' (2, -8)
B' (8, -6)
C' (7, -3)
D' (1, -5)

May 22-8:10 PM

3. Draw Trapezoid *PQRS* with vertices *P*(-7, 7), *Q*(-1, 6), *R*(0, 4), and *S* (-4, 1); then translate along the rule $(x, y) \rightarrow (x + 3, y - 7)$. Write the coordinates of the new figure.

Right 3 Units

Down 7 Units



P' (-4, 0)
Q' (2, -1)
R' (3, -3)
S' (-1, -6)

May 22-8:11 PM