

2.1A-c

A)
D)

Figure # fits the data better because....

2) Yes or No

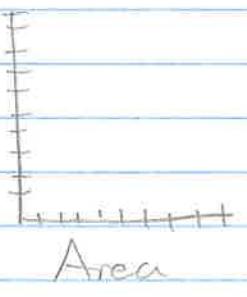
B

# of layers	Figure #1						Figure #2					
	1	2	3	4	5	6	1	2	3	4	5	6
Actual	12	18	32	40	48	64	12	18	32	40	48	64
Predict	12	22	32	41	53	64	10	20	30	41	51	62
Residual	0	-4	0	-1	-5	0	2	-4	2	-1	-3	2

1) I would describe the residuals as....

- 2)
- 3)
- 4)

C1)
Time



2) drew 3)

4) Area	1	3	5	8	10
Time	3	8	12	20	25
Predict					
Residual					

1st year 2014
4/1/14

2014

1/1

2.2 A, B, C, D, E

A₁ m =
b =
Y = mx + b =>

A₂) m =
b =
Y = mx + b =>

A₃ m =
b =
Y = mx + b =>

A₄) m =
b =
Y = mx + b =>

B_{1a} X -2 -1 0 1 2 B_{1b}) X
Y -1 1 3 5 7 Y

$\frac{\Delta Y}{\Delta X} = \text{slope} = - =$

b = where x is 0 =

Y = x +

C points $\begin{matrix} x_1 & y_1 \\ (4, 2) \end{matrix}$ and $\begin{matrix} x_2 & y_2 \\ (-1, 7) \end{matrix}$

C₁) $\frac{y_2 - y_1}{x_2 - x_1} =$

C₂) (5, 1) (0, 6) I added 1 to the x-coordinate and subtracted 1 from the y-coordinate because...

D equation	1 st point	2 nd point
y = 2x	(0, 0)	(1, 2)
y = -3x	(0, 0)	(1, -3)
y = m x	(0, 0)	(1, m)
y = 5x	(0, 0)	(1, 5)
y = $\frac{2}{3}x$	(0, 0)	(2, 3)

Kevin is/not correct because...

2.3 A, B, C, E

A₁) charge per customer = \$25
income = I
n = number of customers

$$Y = mx + b \Rightarrow I = 25n + 0$$

A₂) operating cost = \$500
P = profits daily
n = number of customers

$$Y = mx + b \Rightarrow$$

A₃) rope cost \$4,500
monthly payment \$350
B = Balance
m = monthly payments

$$Y = mx + b \Rightarrow$$

# in group	1	2	3	4	5	10	15	20
Admission dollars	75	90	105	120	135	210	285	360

B₁) As the number of group members increases
the admission dollars goes...

b₂) m =
b =

B₃) A =

C) $Y = mx + b \Rightarrow Y = x +$

E₁) m = -3 $\begin{matrix} x, Y \\ (4, 3) \end{matrix}$

$$Y = -3x + 15$$

$$3 = -3 \cdot 4 + b$$

Data is correct because...

$$3 = -12 + b$$

$$15 = b$$

$$E_2) \quad \begin{array}{cc} x_1, y_1 & x_2, y_2 \\ (4, 5) & (6, 9) \end{array}$$

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{9 - 5}{6 - 4} = \frac{4}{2} = 2 = m$$

$$Y = 2x + b$$

$$5 = 2 \cdot 4 + b$$

$$5 = 8 + b$$

$$-3 = b$$

$$Y = 2x - 3$$

Chris is correct because...

2.4 A-C, E

A₁) $0.15 =$
 $2.50 =$

2) it costs _____ to rent for 25 minutes

3) they used the canoe for _____ minutes

4) they can rent the boat for _____ minutes

B) Rashida could say...

C) Serena could say...

E₁) $C = 4 + .10t$ $C =$
 $t = 20$ minutes

E₂) $C = 4 + .10t$ $t =$
 $C = 9$

E₃) $C = 12 = 4 + .10t$ $t =$

2.5 A & B

$$Y = m x + b$$

A₁) $F = p +$

A₂) $R = p +$

B₁) $F = p +$

$R = p +$

B₂) $F = p +$

B₃) $R = p +$

B₄) $p \approx$

B₅) p

B₆) p

X	Probability of Rain %	0	20	40	60	80	100
Y	Big Fun Attendance	1,000	850	700	550	400	250

	Probability of Rain %	0	20	40	60	80	100
	Get Reel Attendance	300	340	380	420	460	500

