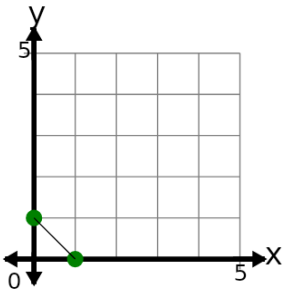




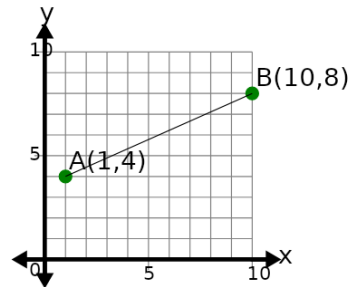
Linear Relations

1 What slope does the line on this graph have?



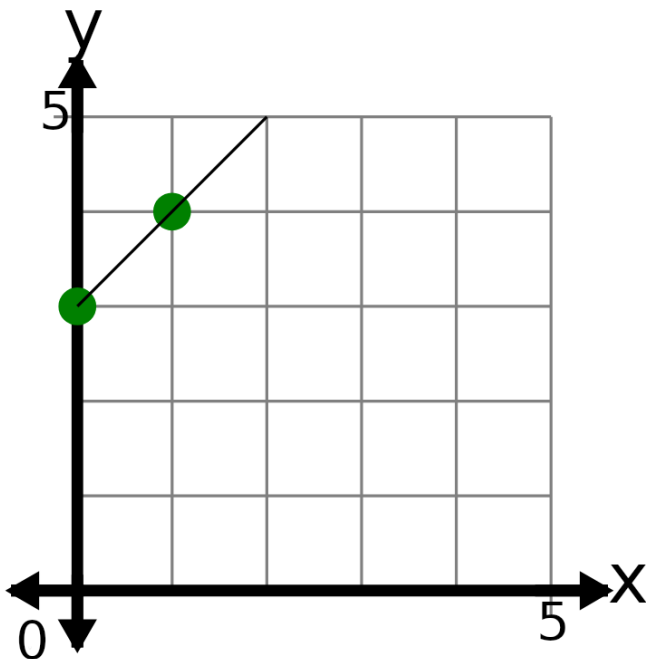
- A $m = -1$
- B $m = -0.5$
- C $m = 1$

2 Is the slope of segment AB equal to $\frac{4}{9}$



- A No
- B Yes

3 What slope does the line on this graph have?



- A $m = -\frac{1}{2}$
- B $m = -1$
- C $m = 1$

4 What slope would be PARALLEL to the slope of this line equation?

$$y = 1x + 3$$

- A $m = 0.5$
- B $m = 1$
- C $m = -1$

5 What line equation would have a slope that is PARALLEL to the slope of this line equation?

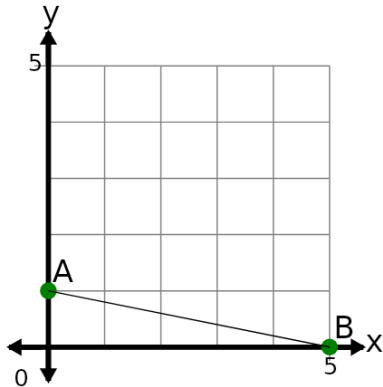
$$y = -\frac{1}{2}x + 1.5$$

- A $y = -2x$
- B $y = -\frac{1}{2}x$
- C $y = \frac{2}{2}x$
- D $y = \frac{1}{2}x$



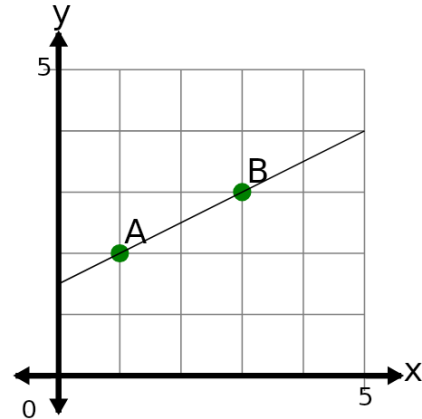
Linear Relations

- 6 Find the slope of the line between Point A and Point B given that Y decreases by 1 and X increases by 5



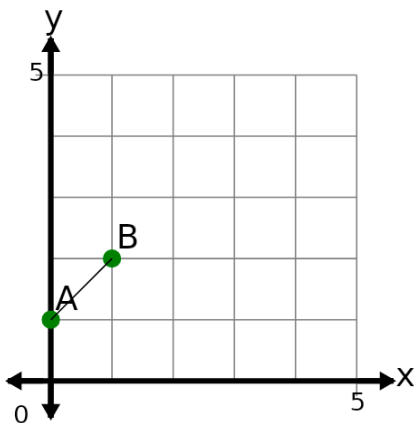
A	-0.36	B	-0.2	C	-5
D	-0.56	E	0.25	F	0.2

- 7 Find the slope of the line between Point A and Point B



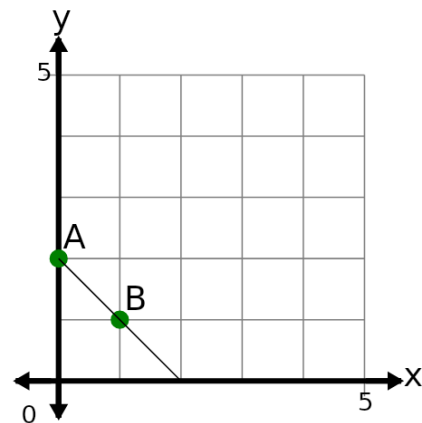
A	0.6	B	0.25	C	2
D	-0.2	E	0.5	F	-0.3

- 8 Find the slope of the line between Point A and Point B



A	0	B	2	C	1
D	-0.25	E	-0.6	F	-0.4

- 9 Find the slope of the line between Point A and Point B

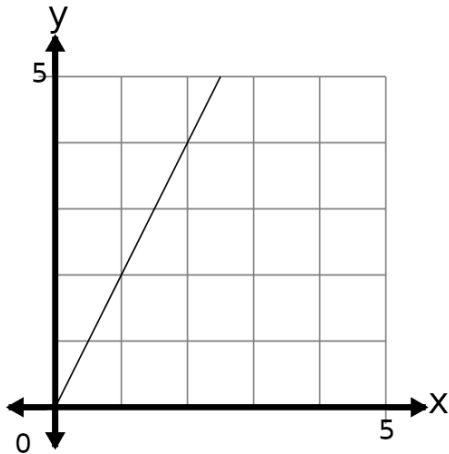


A	0.8	B	0.2	C	-2
D	-1	E	0	F	-1.8



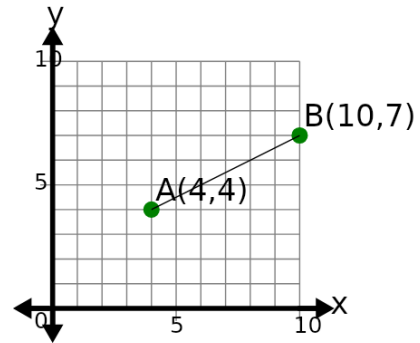
Linear Relations

10 Find the slope of the line



- | | | |
|----------|------------|----------|
| A
1 | B
-1.25 | C
5.6 |
| D
0.5 | E
-0.8 | F
2 |

11 Find the slope of segment AB



- | | |
|--------------------|---------------------|
| A
$\frac{5}{6}$ | B
$\frac{1}{2}$ |
| C
$\frac{1}{6}$ | D
2 |
| E
$\frac{3}{8}$ | F
$-\frac{1}{2}$ |

12 What line equation would have a slope that is PARALLEL to the slope of this line equation?

$$-0.4x + 2y = 6$$

A
 $y = -\frac{5}{2}x + 3$

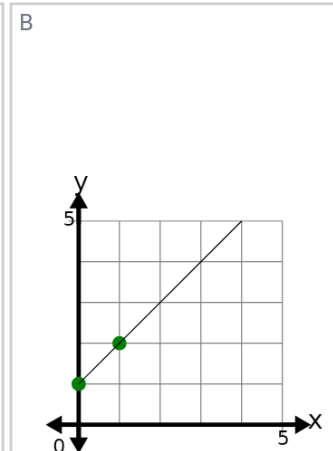
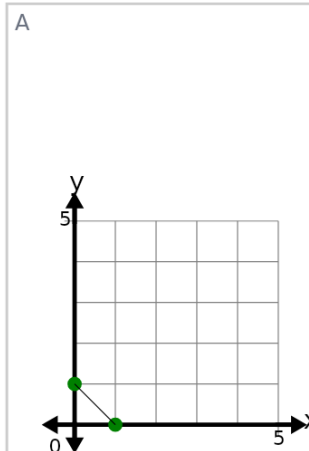
B
 $y = 5x + 3$

C
 $y = -\frac{1}{5}x + 3$

D
 $y = \frac{1}{5}x + 3$

13 What line has a slope that is PARALLEL to the slope of this line equation?

$$-1x + 1y = 1$$





Linear Relations

14 What equation would create this chart of X, Y values?

X	Y
0	1
1	3
2	5
3	7
4	9

A $y = \frac{1}{2}x + 1$

B $y = \frac{2}{2}x + 1$

C $y = 2x + 1$

D $y = -2x + 1$

15 What slope would this line of X, Y values have?

X	Y
0	3.2
1	3
2	2.8
3	2.6
4	2.4

A $m = -5$

B $m = \frac{5}{2}$

C $m = \frac{1}{5}$

D $m = -\frac{1}{5}$

16 What slope would this line of X, Y values have?

X	Y
0	1
1	1.2
2	1.4
3	1.6
4	1.8

A $m=5$

B $m=0.2$

C $m=-0.2$

D $m=0.1$

17 Find the y intercept of this function by setting x to zero and solving

$$4x - 1y = -4$$

A -6

B 5

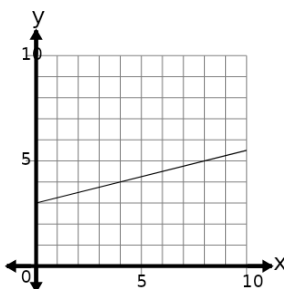
C 4

D -1

E 2

F 7

18 Select the equation that would result in the line on the graph as shown



A $y = -0.75x + 3$

B $y = 0.25x + 3$

C $y = -3x - 0.25$

D $y = -0.25x + 3$



Linear Relations

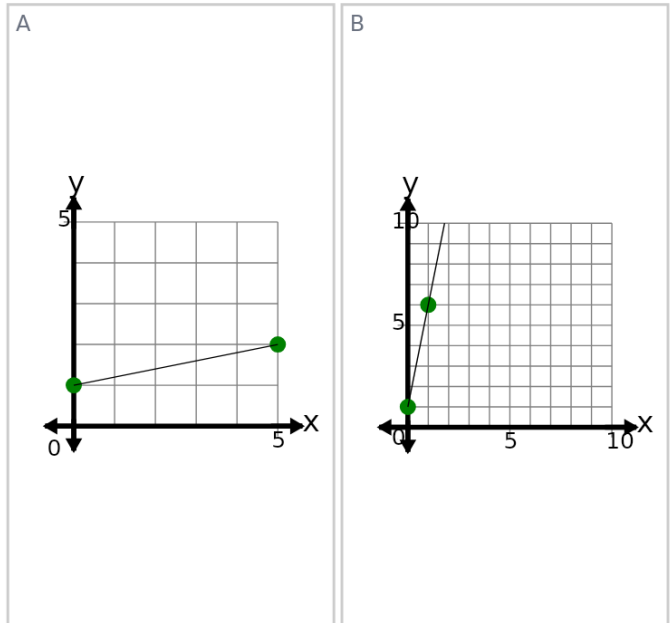
- 19** Find the y intercept of this function by setting x to zero and solving

$$-24x - 4y = -7.8$$

A 5	B 4.2	C 2.7
D -0.3	E 2	F 1.2

- 20** What graphed line shows this line equation?

$$y = \frac{1}{5}x + 1$$

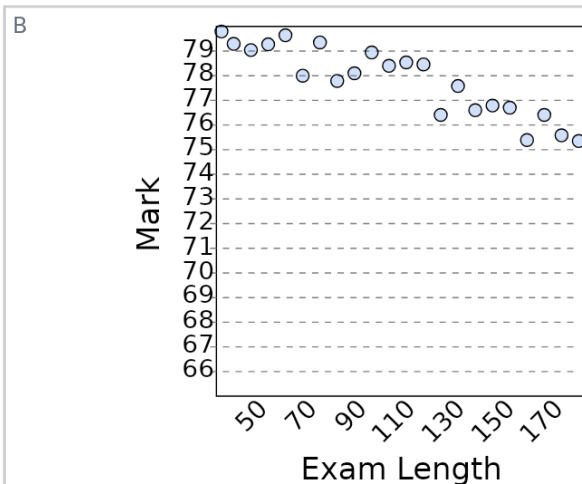
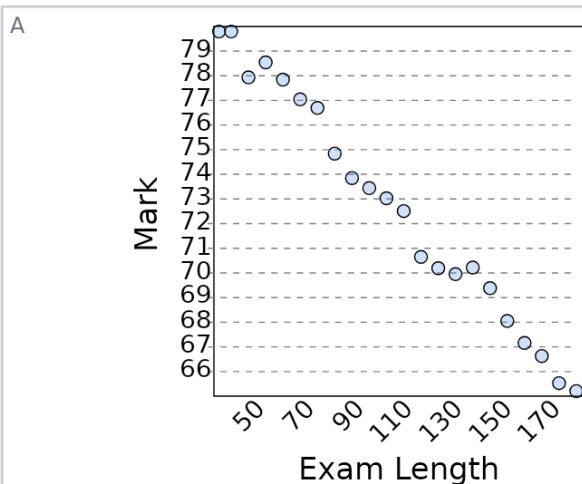


- 21** What is temperature called in this trend?
As temperature increases, sales tends to decrease

A Independent Variable
B Dependent Variable

- 22** Which graph matches this equation?

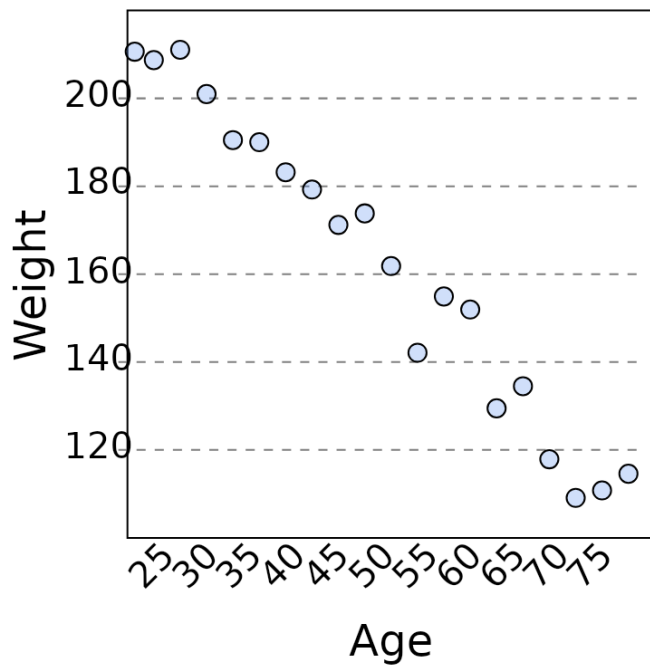
$$\text{Mark} = -0.1 * \text{Exam Length} + 83$$





Linear Relations

23 What is the independent variable on this scatter plot?



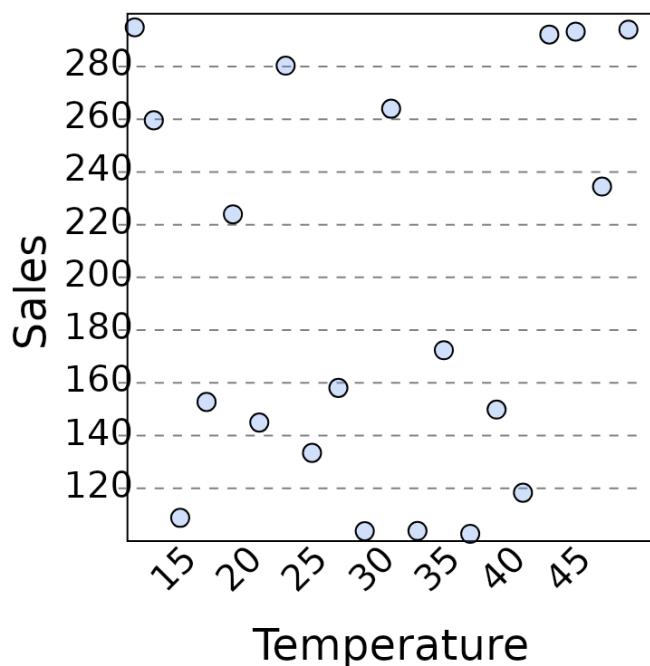
A

Age

B

Weight

24 What is sales called on this scatter plot?



A

Dependent Variable

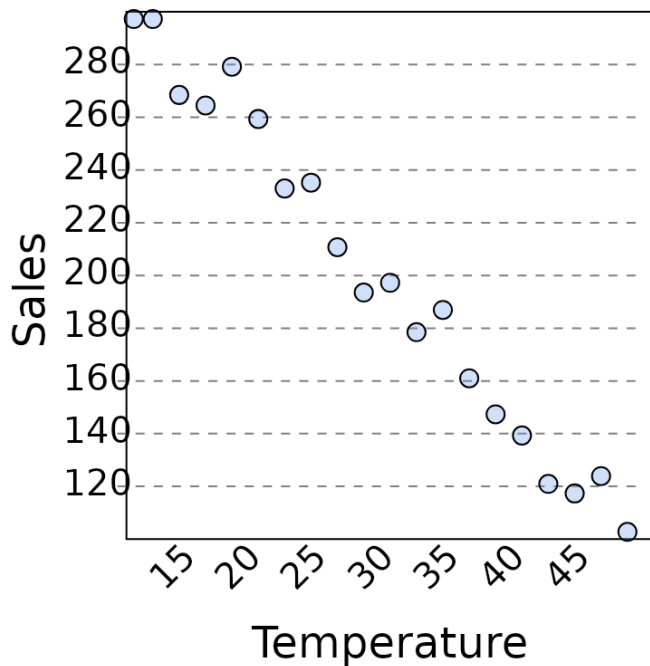
B

Independent Variable



Linear Relations

25 What is the dependent variable on this scatter plot?



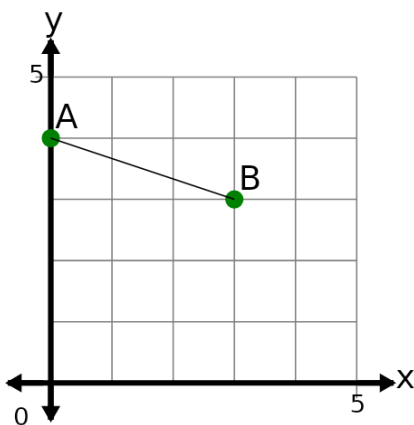
A

Temperature

B

Sales

26 Find the slope of the line between Point A and Point B



A -0.47	B -1	C -0.13
D -3	E -0.33	F -0.27

27 Find the slope of the line between the two (x, y) points

(3, 1) and (8, 7)

A 0	B 0.24	C 0.5
D 2.88	E 1.2	F 0.83

28 Is the slope of segment AB equal to $\frac{7}{3}$

Point A : (6, 2)

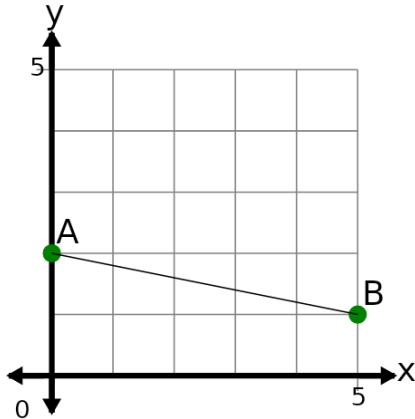
Point B : (9, 9)

A No	B Yes
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Linear Relations

29 Find the slope of the line between Point A and Point B



A	-5	B	2	C	-0.2
D	0.08	E	-0.28	F	-0.25

30 Find the slope of the line between 4 and 6 given the two values for $y = f(x)$

$$f(4) = 1 \quad f(6) = 3$$

A	0.75	B	-2.25	C	1
D	-1	E	2.25	F	2.6

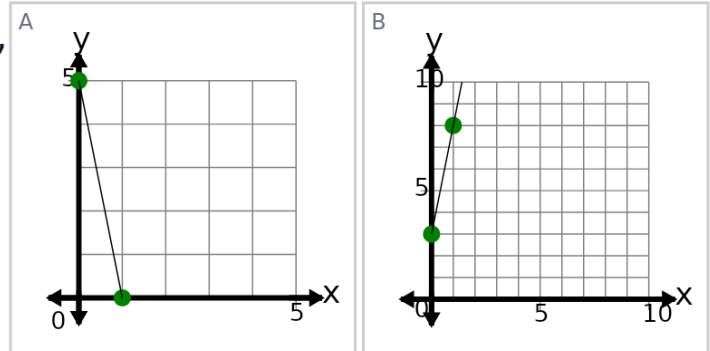
31 What line equation would create this set of X, Y values?

X	Y
0	2
1	4
2	6
3	8
4	10

A	$y = 2x + 2$
B	$y = -2x + 2$
C	$y = \frac{2}{2}x + 2$
D	$y = \frac{1}{2}x + 2$

32 What graph shows this set of X, Y values?

X	Y
0	3
1	8
2	13
3	18
4	23



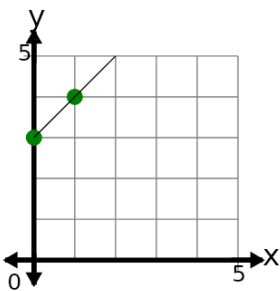


Linear Relations

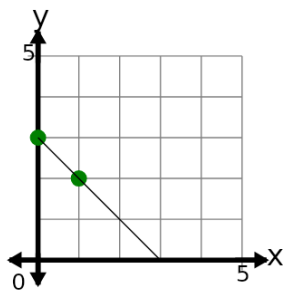
33 What graphed line shows this standard form line equation?

$$-2x + 2y = 6$$

A



B



34 Which function matches the values in the table?

x	h(x)
-3	-2
-1	-6
1	-10
3	-14

A

$$h(x) = -x - 9$$

B

$$h(x) = -3x - 8$$

C

$$h(x) = -2x - 10$$

D

$$h(x) = -2x - 8$$