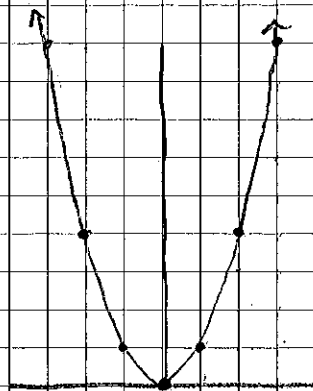


⑩ A continuous graph can be a line, a ray, or a line segment. The graph shows a line segment so it is continuous. The points on the graph are not distinct.

⑪ No. Because, if you plug the x value (2) into the function, you do not get $2\frac{1}{2}$.

⑫ $A = \frac{1}{2}L^2$

- (0, 0)
- (2, 2)
- (4, 8)
- (6, 18)



Continuous. Any number that is substituted for L makes sense.

⑬ Remember $y = mx + b$! The 'b' represents the y-intercept, so by looking at the graph, you can determine the answer is either B or C.

Choose an x value and plug it into the function rule.

Ⓐ $y = \frac{1}{2}(2) - 1$ That gives a coordinate of (2, 0)
 $= 1 - 1$ Does that match the graph? Yes
 $= 0$

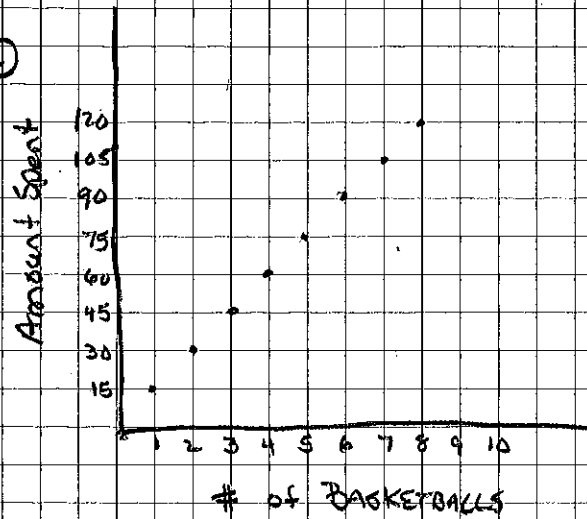
Ⓑ $y = \frac{1}{2}|2| - 1$ (2, 0) yes
 $y = 1 - 1$
 $y = 0$

Choose a negative value

Ⓒ $y = \frac{1}{2}(-2) - 1$ | Ⓓ $y = \frac{1}{2}|-2| - 1$ The Answer

20 $a = 15b$

a



b 8

Discrete, you can't
by part of a basketball.

22 $h = 100 - 16t^2$

t	h
0	100
1	84
2	36
3	-44

$$h = 100 - 16(0^2)$$

$$h = 100$$

$$h = 100 - 16(1^2)$$

$$h = 84$$

$$h = 100 - 16(2^2)$$

$$h = 36$$

$$h = 100 - 16(3^2)$$

$$h = -44$$

$$h = 100 - 16(1^2)$$

$$h = 100 - 16$$

$$h = 84$$

$$h = 100 - 16(2^2)$$

$$h = 100 - 64$$

$$h = 36$$

$$h = 100 - 16(3^2)$$

$$h = 100 - 144$$

$$h = -44$$

Between 2 and 3 seconds

$$\textcircled{23} \quad y = |x| + 1$$

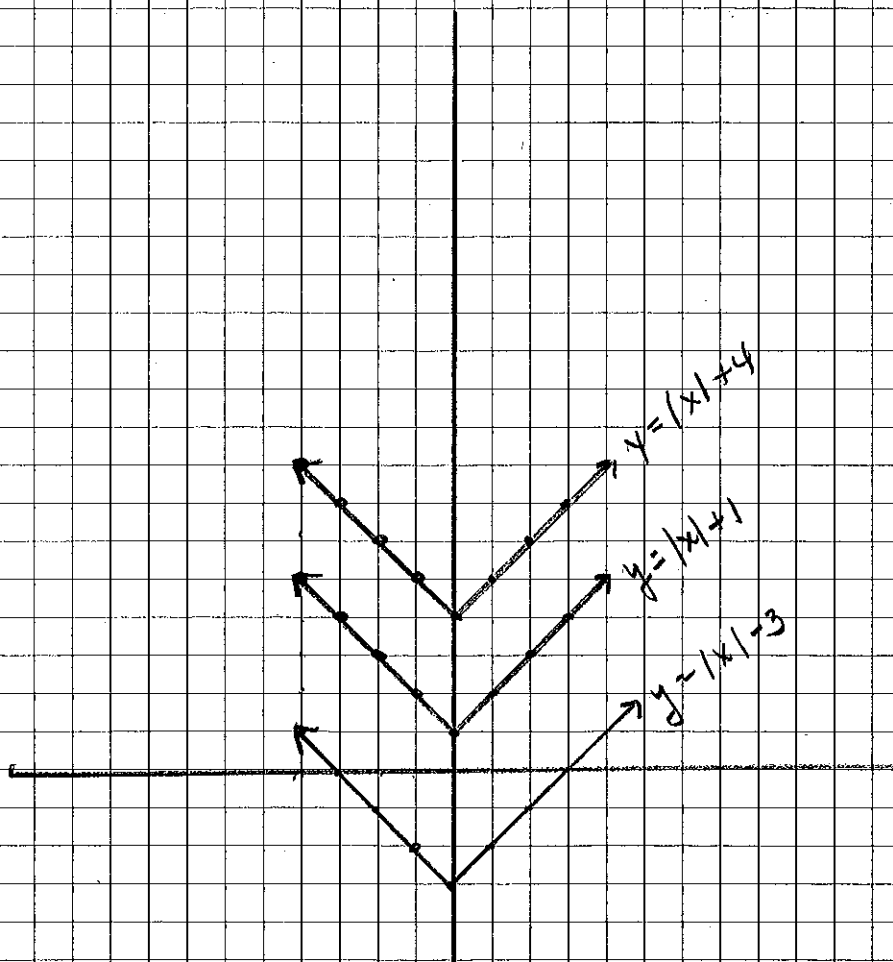
-4	5
-3	4
-2	3
-1	2
0	1
1	2
2	3
3	4
4	5

$$y = |x| + 4$$

-4	8
-3	7
-2	6
-1	5
0	4
1	5
2	6
3	7
4	8

$$y = |x| - 3$$

-4	1
-3	0
-2	-1
-1	-2
0	-3
1	-2
2	-1
3	0
4	1

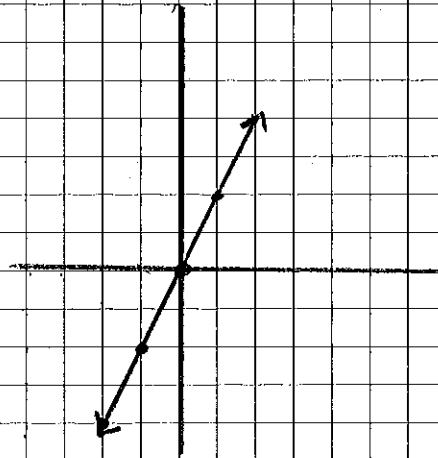


$y = |x| + k$
The graph
moves above
or below 0
k units.

(24)

$$y = 2x$$

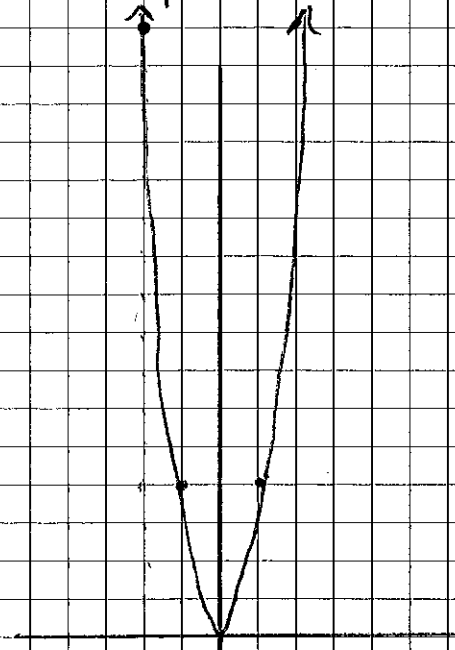
x	y
-4	-8
-2	-4
0	0
2	4
4	8



for $y = 2x$
double the
value of x
causes double
the value of y

$$y = 2x^2$$

x	y
-4	32
-2	8
0	0
2	8
4	32



for $y = 2x^2$
double the value
of x causes
quadruple the
value of y .