




1.

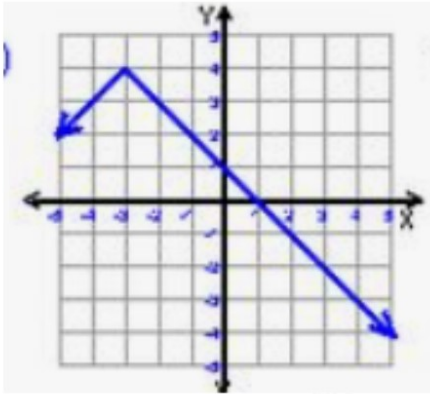
$$\begin{array}{r}
 \begin{array}{c} \text{Watermelon} \\ W \end{array} + \begin{array}{c} \text{Watermelon} \\ W \end{array} + \begin{array}{c} \text{Watermelon} \\ W \end{array} = 36 \\
 \begin{array}{c} \text{Watermelon} \\ W \end{array} + \begin{array}{c} \text{Orange} \\ O \end{array} + \begin{array}{c} \text{Orange} \\ O \end{array} = 28 \\
 \begin{array}{c} \text{Orange} \\ O \end{array} - \begin{array}{c} \text{Banana} \\ B \end{array} = 3
 \end{array}$$

$\frac{3W}{3} = \frac{36}{3}$
 $W = 12$
 $\frac{2O}{2} = \frac{16}{2}$
 $O = 8$

 = ? = 8
  = ? = 12
  = ? = 5

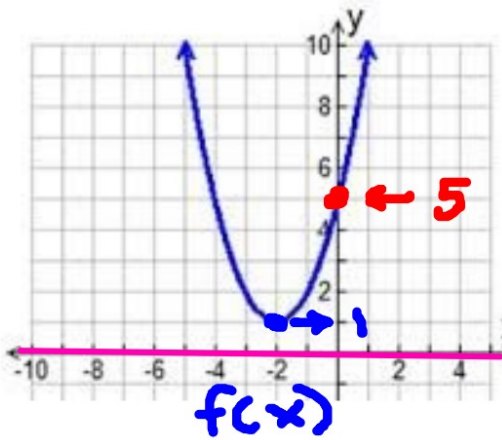
2. What is your favorite game of all time?
 Can be a board game, video game or any game.
 (You can type answers in the chat)

1.



Absolute Value =

2.



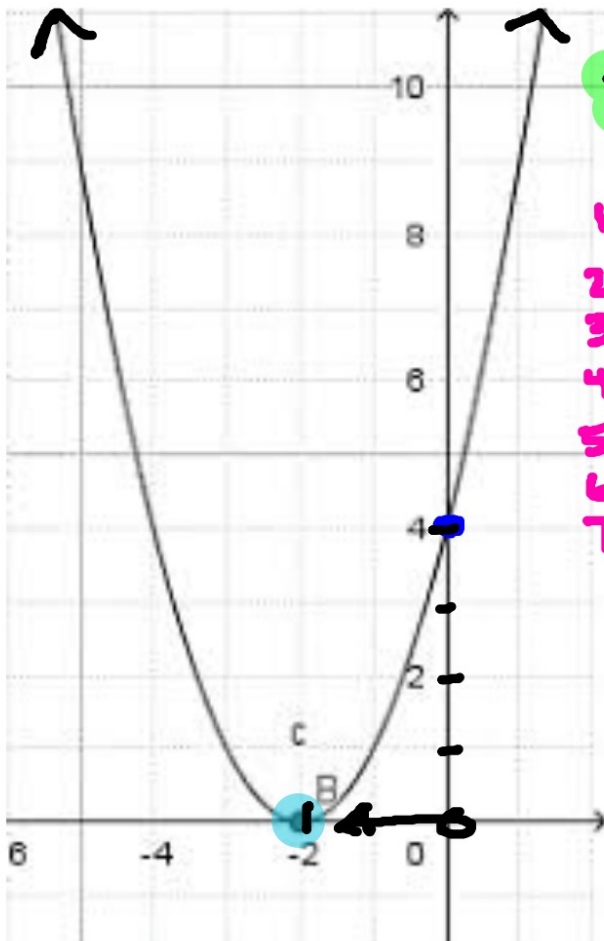
x	⁵ g(x)
1	5
2	8
3	13
4	20
5	29

A) $\underline{5} < \underline{13}$

B) $1 < 29$

C) $0 = 0$

3.



True

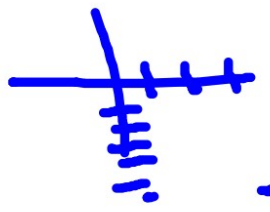
False

- 1 The y-intercept is at $(-2, 0)$
- 2 The function $f(x)$ has a maximum at 4
- 3 The function has 1 real solution
- 4 The function $f(x)$ has minimum a 0
- 5 The vertex is $(-2, 0)$
- 6 The domain of the function is $(-2, 4)$
- 7 The y-intercept is $(0, 4)$

4. * $y = (x - 3)^2 - 7$
Find vertex

RIGHT 3

DOWN 7



$(3, -7)$

5. $f(x) = x^2 \rightarrow f(x) = f(x+5) - 3$

Left 5

Down 3

left 5, down 3

6. $f(x) = x^2$
 $f(x+4)$ ← left 4

RED
BLUE

7. $f(x) = \frac{1}{2}(x-3)^2 - 1$
 $g(x) = 4(x-3)^2 - 1$

(3, -1)

The graph of $f(x)$ is wider than the graph of $g(x)$

The graph of $f(x)$ is narrower than the graph of $g(x)$

The graphs open down.

The y-coordinate of the vertex of $f(x)$ is greater than the y-coordinate of the vertex of $g(x)$

The graphs open up.

8.

$$y = -2x + 21$$

$$y = (x-5)^2 - 4$$

$$x = 0$$

$$x = 8$$

DES MOS

What is the
x-coordinate
of the
intersection

9.

$$y = (x-5)^2 - 4$$

$$x = 3$$

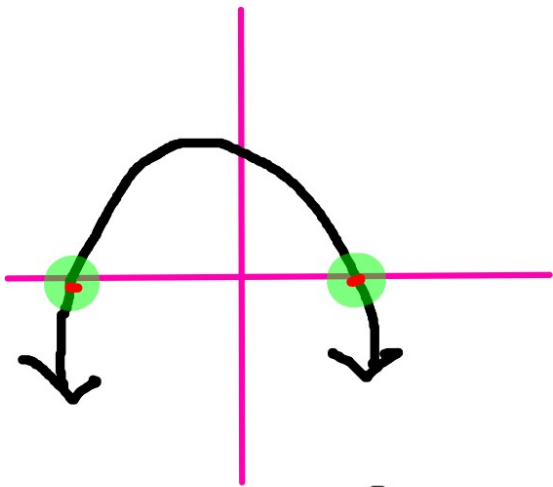
$$x = 7$$

DES MOS

x-values
of solutions
of solutions

10. $f(x) = -x^2 - 5x + 9$

* Two real solutions



11. $(x-4)^2 + (y+3)^2 = 9$

$$y = -3x + 2$$

Solution

(1.26, -1.779)

12. $(x-4)^2 + (y+3)^2 = 9$

$(x-h)^2 + (y-k)^2 = r^2$

✓ Center: $(4, -3)$

✓ radius = 3

✓ Diameter = 6

$D = 2r$

14) AA : $y = 48.95 + 30x$

RR : $y = 24.95 + 42x$

15)

(4,4)
(4,3)

x	y _A	y _B
-4	-8	-13
-2	-5	-9
0	-2	-5
2	1	-1
4	4	3
6	7	7
8	10	11
10	13	15

Solution
(6, 7)
(6, 7)

(2, 108.95)
↑
hours
↑
\$
↑

