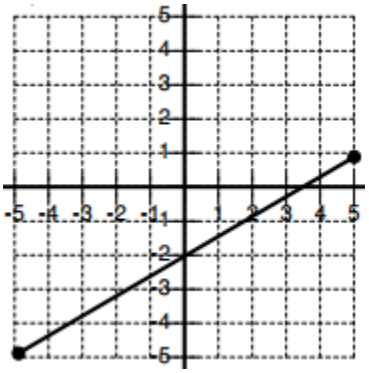
Math 2/2H Name:_____

3.1 Key Features

Find the following:

a) Domain and Range
b) x and y – intercepts
c) Maximum or Minimum

1.

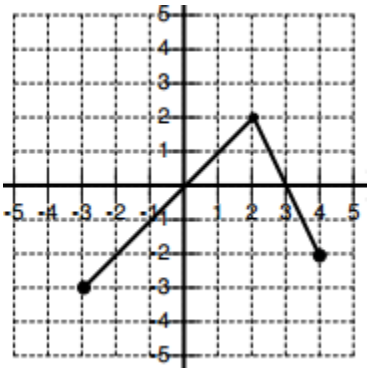


a)

b)

c)

2.

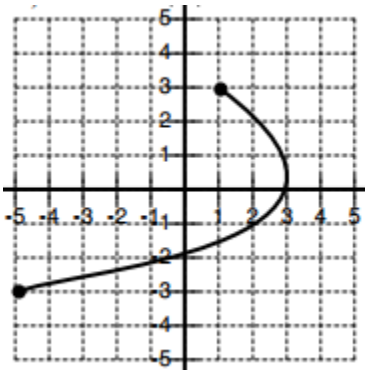


a)

b)

c)

3.

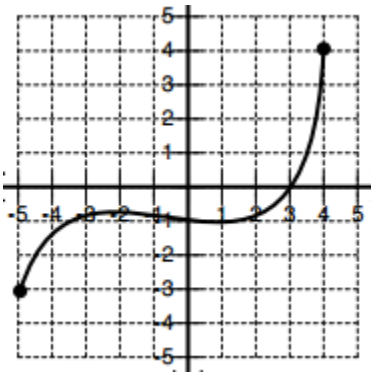


a)

b)

c)

4.

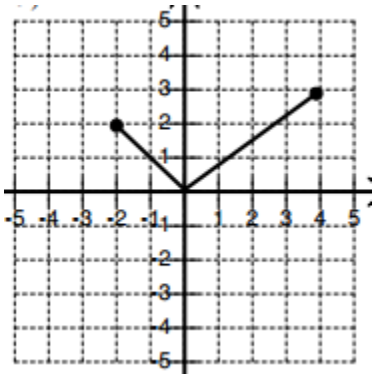


a)

b)

c)

5.

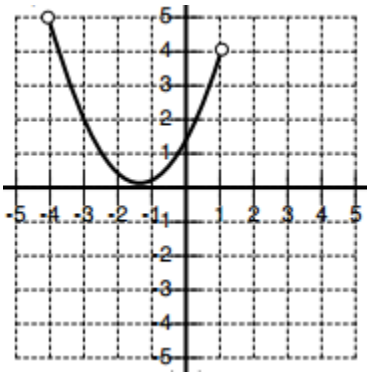


a)

b)

c)

6.

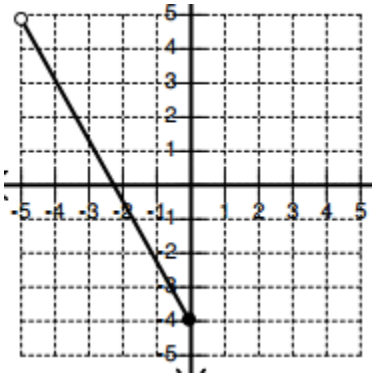


a)

b)

c)

7.

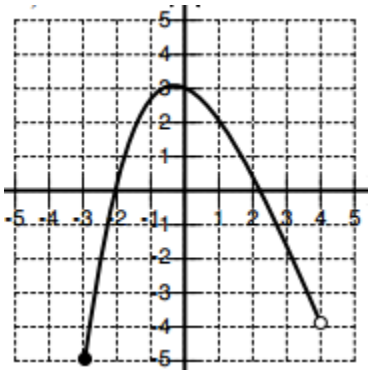


a)

b)

c)

8.



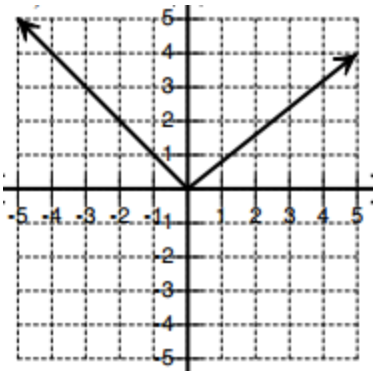
a)

b)

c)

Math 2/2H Name:_____

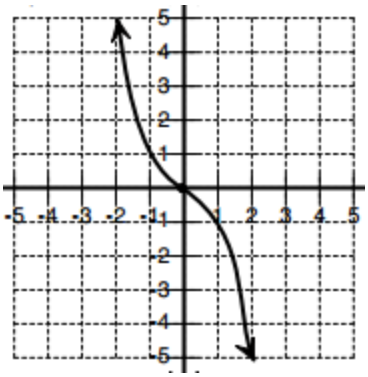
3.1 Key Features

9. 

a)

b)

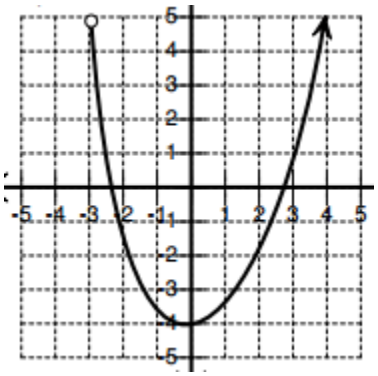
c)

10. 

a)

b)

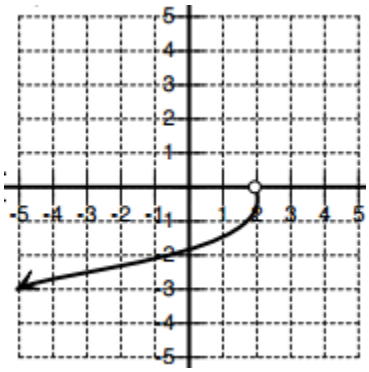
c)

11. 

a)

b)

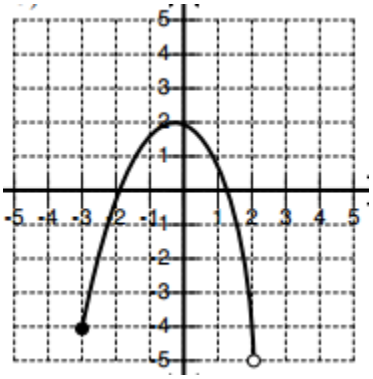
c)

12. 

a)

b)

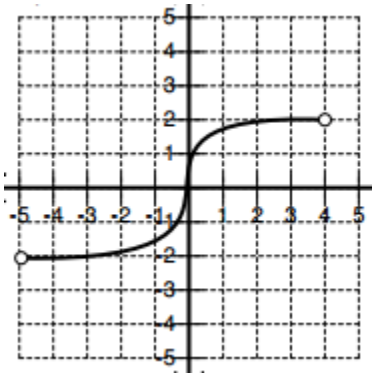
c)

13. 

a)

b)

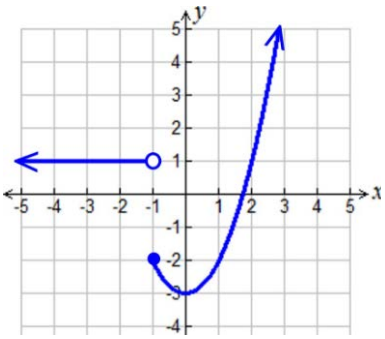
c)

14. 

a)

b)

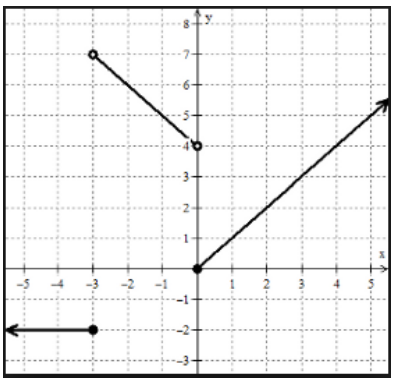
c)

15. 

a)

b)

c)

16. 

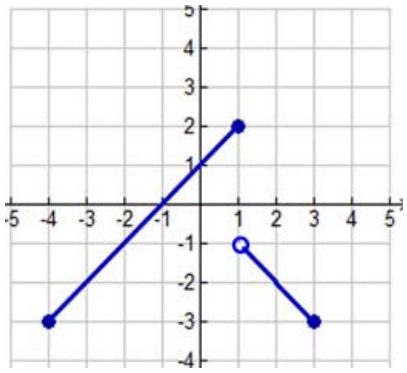
a)

b)

c)

Math 2/2H Name:_____

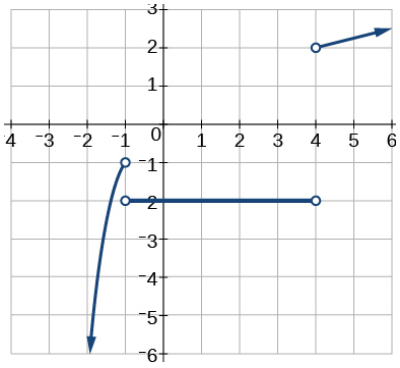
3.1 Key Features

17. 

a)

b)

c)

18. 

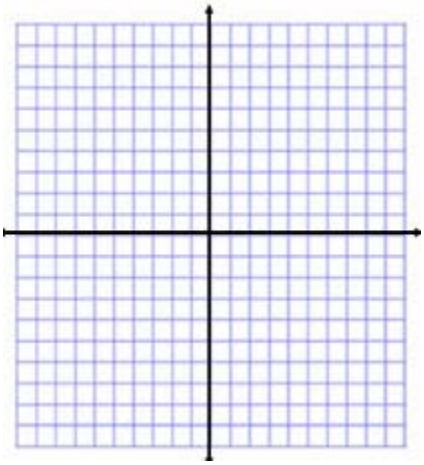
a)

b)

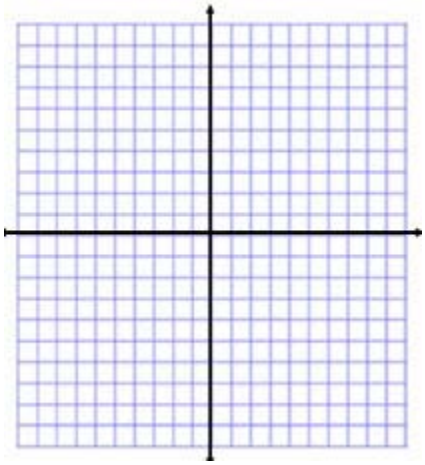
c)

Graph.

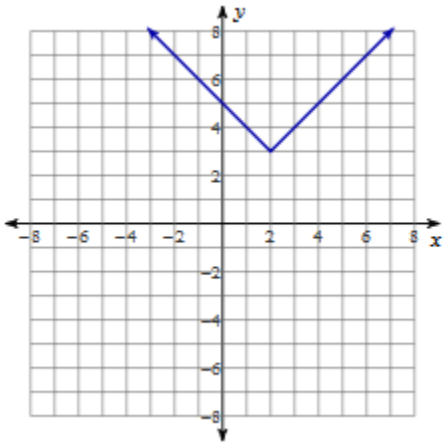
19. $f(x) = \begin{cases} x - 1 & x < 0 \\ x^2 & x \geq 0 \end{cases}$

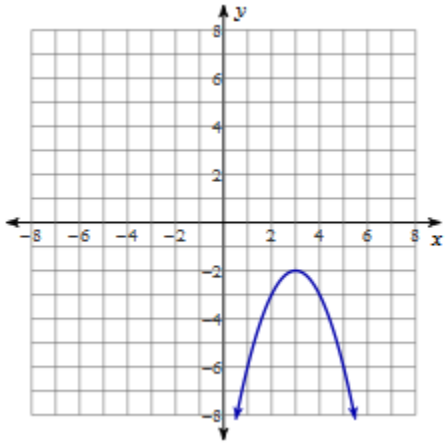


20. $f(x) = -(x+1)^2 - 4$



Write an equation for the graph.

21. 

22. 

Math 2/2H Name:_____

3.1 Key Features

Solve:

23. $9x^2 - 3x - 2 = 0$

24. $m^2 + 5m + 4 = 0$

Simplify

25. $(4p + 7)(6p^2 - 7p - 6)$

26. $2\sqrt{3} - \sqrt{8} - 2\sqrt{18}$

27. $(v^2)^2 * v^2$

28. $\left(uv^{\frac{3}{2}}\right)^{\frac{5}{4}} * uv^{\frac{1}{2}}$