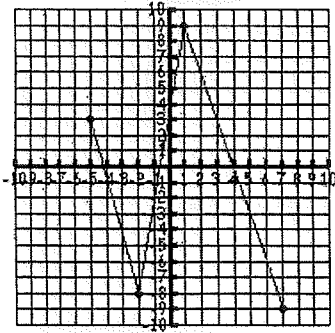


Unit 1 Summative Review Part 2

Determine if the graph is a function, then state the domain and range.

Give domain + range in interval notation.

13.

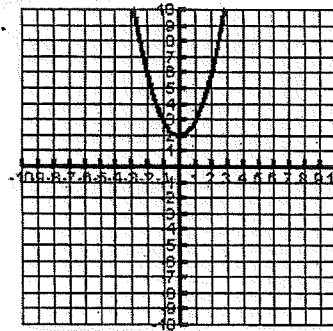


Domain: _____

Range: _____

Function: _____

14.

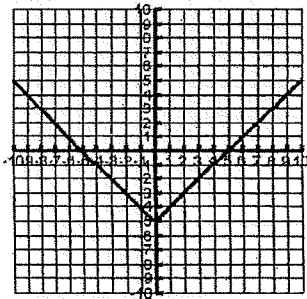


Domain: _____

Range: _____

Function: _____

15.

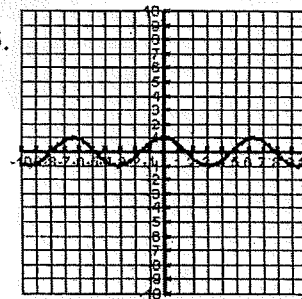


Domain: _____

Range: _____

Function: _____

16.

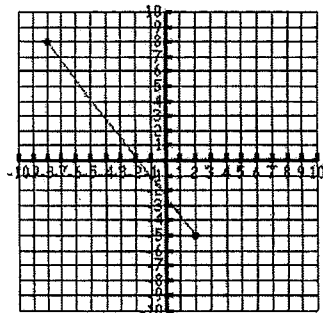


Domain: _____

Range: _____

Function: _____

17.

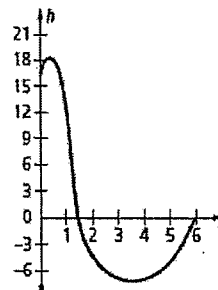


Domain: _____

Range: _____

Function: _____

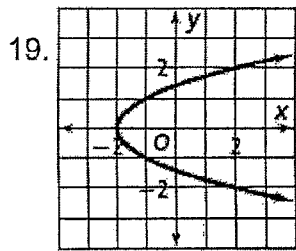
18.



Domain: _____

Range: _____

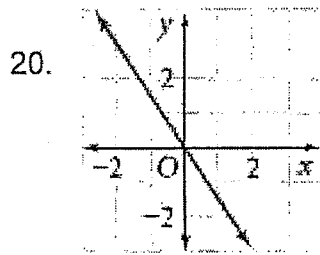
Function: _____



D: _____

R: _____

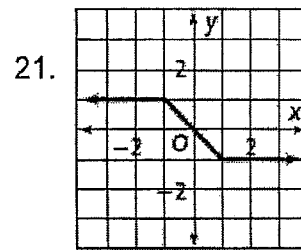
F: _____



D: _____

R: _____

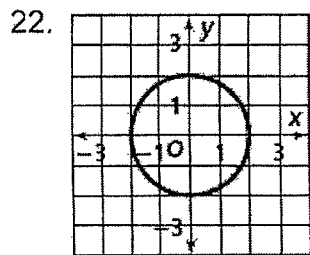
F: _____



D: _____

R: _____

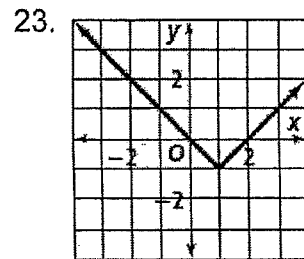
F: _____



D: _____

R: _____

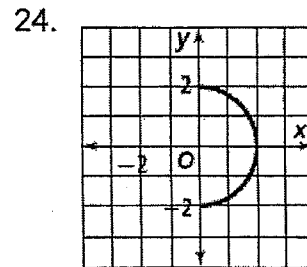
F: _____



D: _____

R: _____

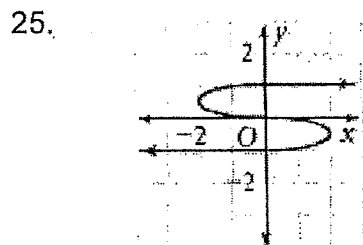
F: _____



D: _____

R: _____

F: _____



Domain: _____

Range: _____

Function: _____

Find the domain of each function. Give domain in interval notation.

7. $f(x) = 3\sqrt{x-2}$

8. $f(x) = 5\sqrt{x+3}$

9. $f(x) = 3 - \sqrt{6-2x}$

10. $f(x) = 5 - \sqrt{10-2x}$

11. $f(x) = \frac{9}{x-6}$

12. $f(x) = \frac{6}{x-8}$

13. $f(x) = \frac{3x+1}{4x+2}$

14. $f(x) = \frac{5x+3}{4x-1}$

~~15. $f(x) = \frac{\sqrt{x+4}}{x-4}$~~

~~16. $f(x) = \frac{\sqrt{x+5}}{x-6}$~~

17. $f(x) = \frac{x-3}{x^2+9x-22}$

18. $f(x) = \frac{x-8}{x^2+8x-9}$

Given each function, evaluate: $f(-1)$, $f(0)$, $f(2)$, $f(4)$

19. $f(x) = \begin{cases} 7x+3 & \text{if } x < 0 \\ 7x+6 & \text{if } x \geq 0 \end{cases}$

20. $f(x) = \begin{cases} 4x-9 & \text{if } x < 0 \\ 4x-18 & \text{if } x \geq 0 \end{cases}$

21. $f(x) = \begin{cases} x^2-2 & \text{if } x < 2 \\ 4+|x-5| & \text{if } x \geq 2 \end{cases}$

22. $f(x) = \begin{cases} 4-x^3 & \text{if } x < 1 \\ \sqrt{x+1} & \text{if } x \geq 1 \end{cases}$

23. $f(x) = \begin{cases} 5x & \text{if } x < 0 \\ 3 & \text{if } 0 \leq x \leq 3 \\ x^2 & \text{if } x > 3 \end{cases}$

24. $f(x) = \begin{cases} x^3+1 & \text{if } x < 0 \\ 4 & \text{if } 0 \leq x \leq 3 \\ 3x+1 & \text{if } x > 3 \end{cases}$

Graph.

25. $f(x) = \begin{cases} x+3, & x < -1 \\ 2x-1, & x \geq -1 \end{cases}$

26. $f(x) = \begin{cases} 2x-1, & x \leq 0 \\ 2-x, & 0 < x < 3 \\ x+1, & x \geq 3 \end{cases}$

27. $f(x) = \begin{cases} |x|+2, & x < -1 \\ x-5, & -1 \leq x \leq 4 \\ 3, & x > 4 \end{cases}$

