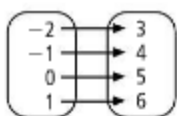


2.6 key 11-29, skip 22

11. domain: $\{-2, -1, 0, 1\}$, range: $\{3, 4, 5, 6\}$



function

12. yes

13. 9

14. $\{-2, -1, 0, 1, 2\}$

15. $f(x) = 2x + 7$

-
16. Answers may vary. Sample: Both methods can be used to determine whether there is more than one output for any given input. A mapping diagram does not represent a function if any domain value is mapped to more than one range value. A graph does not represent a function if it fails the vertical line test.

17. No; there exists a vertical line that intersects the graph in more than one point, so the graph does not represent a function.

18. not a function

19. function; domain: $\{-4, -1, 0, 3\}$, range: $\{-4\}$

20. Check students' work.

21. 5; if $f(a) = 26$, then $6a - 4 = 26$ and $a = 5$.

23. a. c is the independent variable and p is the dependent variable.

b. Yes; for each value of c , there is a unique value of p .

c. $p = 5c - 34$

d. $0 \leq c \leq 40, 0 \leq p \leq 166$

24. Answers may vary. Sample given: any value except 1 and -7

25. function

26. not a function

27. not a function

28. function

-
29. A horizontal line is a function because each value of x has a unique value of y ; a vertical line is not a function because the x -value has more than one y -value associated with it.