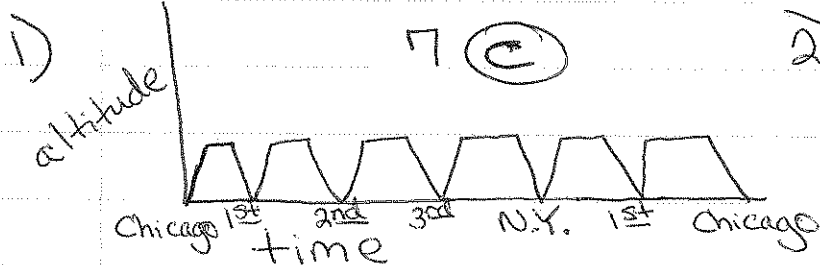


Student Name _____

Parent Sign _____

Alg.
Ch. 5
Review



7 (C)

2) domain - 1st
range - 2nd

$$D = \{29, 36, 65\}$$

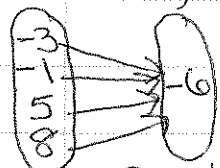
$$R = \{17, 37, 42\}$$

(D)

3) $\{(-3, -6), (-1, -6), (5, -6), (8, -6)\}$

4) $f(x) = -4x - 1$

5) $f(x) = x^2 - 2$



(B)

$$-4(2) - 1$$

$$-8 - 1$$

$$-9$$

(D)

$$(-3)^2 - 2$$

$$9 - 2$$

$$7$$

(A)

yes, a function

6) $f(x) = -x^2 + 1$

7) $y = -3x - 1$

8) $y = 3x + 2$

$$-(-3)^2 + 1$$

$$-9 + 1$$

$$-8$$

(C)

x	-3x-1	(x,y)
2	-3(2)-1	(2,-7)
1	-3(1)-1	(1,-4)
0	-3(0)-1	(0,-1)
-1	-3(-1)-1	(-1,2)
-2	-3(-2)-1	(-2,5)

(B)

x	3x+2	(x,y)
2	3(2)+2	(2,8)
1	3(1)+2	(1,5)
0	3(0)+2	(0,2)
-1	3(-1)+2	(-1,-1)
-2	3(-2)+2	(-2,-4)

(A)

9) $y = |2x| + 1$

x	2x +1	(x,y)
2	2(2) +1	(2,5)
1	2(1) +1	(1,3)
0	2(0) +1	(0,1)
-1	2(-1) +1	(-1,3)
-2	2(-2) +1	(-2,5)

(A)

10) $y = x^2 - 2$

11) $y = -2x^2 - 2$

x	x^2-2	(x,y)
2	(2)^2-2	(2,2)
1	(1)^2-2	(1,-1)
0	(0)^2-2	(0,-2)
-1	(-1)^2-2	(-1,-1)
-2	(-2)^2-2	(-2,2)

(A)

x	-2x^2-2	(x,y)
2	-2(2)^2-2	(2,-10)
1	-2(1)^2-2	(1,-4)
0	-2(0)^2-2	(0,-2)
-1	-2(-1)^2-2	(-1,-4)
-2	-2(-2)^2-2	(-2,-10)

(B)

12)	x	f(x)
	2	4 +2
	3	5 +2
	4	6 +2
	5	7 +2

$$f(x) = x + 2$$

(B)

13) $c(p) = .59p$ (D)

14) $m(h) = 5.50h$
 $m(3.75) = 5.50(3.75)$

$$\begin{array}{r} 5.50 \\ \times 3.75 \\ \hline 2750 \\ 38500 \\ 165000 \\ \hline 20.6250 \end{array}$$

\$20.63

(D)

15) $h(d) = .5d + 10$

$$18.5 = .5d + 10$$

$$\frac{8.5}{.5} = \frac{.5d}{.5}$$

$$17 = d$$

(A)

$\frac{.185m}{18.5cm}$

$$\frac{.5 \sqrt{8.5}}{.5} = \frac{17}{35}$$

16) $\frac{4x}{-6} = \frac{-6y}{-6}$

$$-\frac{2}{3}x = y$$

(A)

17) $3x + 5y = 0$

$$\frac{5y}{5} = \frac{-3x}{5}$$

$$y = -\frac{3}{5}x$$

(A)

18)	x	f(x)
	-1	2
	0	0
	2	-4
	5	-10

ratio $\frac{y}{x}$ or $\frac{f(x)}{x}$

$\frac{2}{-1} = -2$
 $\frac{0}{0}$ undefined
 $\frac{-4}{2} = -2$
 $\frac{-10}{5} = -2$

yes, $k = -2$

(D)

19) $(9, -12)$

$$y = kx$$

$$-12 = k(9)$$

$$-\frac{4}{3} = k$$

$$y = -\frac{4}{3}x$$

$$y = -1\frac{1}{3}x$$

(C)

20) $p = k \cdot t$

$$\frac{124}{16} = \frac{k(16)}{16}$$

$$\frac{31}{4} = k$$

$$7.75 = k$$

$$p = 7.75t$$

(C)

$$\begin{array}{r} 4 \sqrt{31.00} \\ \underline{28} \\ 30 \\ \underline{28} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

21) $\frac{9}{100} \rightarrow \frac{x}{90}$

$$\frac{810}{100} = \frac{100x}{100}$$

$$8.1 = x$$

inches

(C)

24) 9, 14, 19, 24, ... (B)

25) $A(n) = 12 + (n-1)(3)$

$A(1) = 12 + (1-1)(3)$ $A(4) = 12 + (4-1)(3)$

$$\begin{array}{r} 12 + (0)(3) \\ 12 + 0 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 12 + (3)(3) \\ 12 + 9 \\ \hline 21 \end{array}$$

$A(10) = 12 + (10-1)(3)$

$$\begin{array}{r} 12 + (9)(3) \\ 12 + 27 \\ \hline 39 \end{array}$$

(D)

22) -4, 0, 4, 8, ... (12, 16) (B)

23) -3, -6, -12, -24, ... (-48, -96) (D)