- 1) What is the **y-intercept** of the graph of 3y = 7x 6?
- **A.** $\frac{7}{3}$ **B.** -6 **C.** -2 **D.** $\frac{6}{7}$
- **2)** Which expression is **equivalent** to $2\sqrt{108}$?
- **A.** $36\sqrt{3}$ **B.** $12\sqrt{3}$ **C.** $18\sqrt{5}$ **D.** $54\sqrt{2}$

- **3)** Which function is **equivalent** to g(x) = 3(x-6)(x+6)?
- **A.** $3x^2 108$
- **C.** $3x^2 36x 108$
- **B.** $3x^2 + 108$ **D.** $3x^2 + 36x 108$
- **4)** Which ordered pair shows y as a function of x?
- **A.** $\{(-1,2),(4,7),(5,-1),(6,6),(4,0)\}$
- **B.** $\{(10.5),(8.4),(4.2),(0.0),(-2.-1)\}$
- **c**. {(7,7),(-3,5),(8,-1),(7,-7),(6,3)}
- **D.** $\{(6,2),(6,-3),(6,0),(6,10),(6,8)\}$

- **5)** Which function is **equivalent** to $y = 5x^2 10x + 1$?
- **A.** $v = 5(x+1)^2 4$ **C.** $v = 5(x-4)^2 + 1$
- **B.** $v = 5(x+4)^2 + 1$ **D.** $v = 5(x-1)^2 4$
- **6)** What is the **solution** to 6m 5 = 17 2(m 1)?

Answer : ______.

7) Which value of x is a **solution** to this equation?

$$10x^2 + 87x = 130$$

- **A.** x = 8.7 **B.** x = -1.3 **C.** x = 5.6 **D.** x = -10
- **8)** What is the value of y in the **solution** to this **system of** equations? x + 5y = 1

$$2x - 5y = 17$$

- **A.** 6

 - **B.** 1 **C.** -1 **D.** -6
- **9)** Which expression is **equivalent** to $6a^2 24a$?
- **A.** 6(4a-1) **C.** 6a(a-18)
- **B.** 6a(a-4) **D.** 6(18a-1)
- **10)** Which expression is **equivalent** to (6x-1)(4x+5) ?
- **A.** $24x^2 + 26x 5$ **C.** $10x^2 + 26x 5$
- **B.** $24x^2 26x + 5$ **D.** $10x^2 26x + 5$
- **11)** What is the **y-intercept** of $y = \frac{1}{2}(6)^x$?

Answer: .

12) Which expression is **equivalent** to:

$$6a^2 - 2 + 5a - 7 - 4a + a^2$$

- **A.** $5a^2 + 9a 5$ **C.** $7a^2 + a 9$
- **B.** $2a^2 9a 3$ **D.** $4a^2 2a 3$

13) Which value of x makes the equation

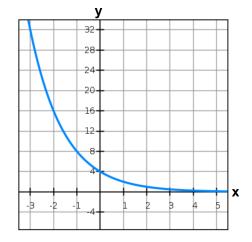
$$2(5x-3)-7=8-2x$$
 true?

- **A.** 1.75
- **B.** 1.25
- **C.** 1.5
- **D.** 2

14) What is the **positive solution** to $x^2 - 9x = 36$?

Answer :______.

15) An **exponential** function is graphed on the grid.



Which function is best represented by the graph?

- **A.** $f(x) = \frac{1}{2}(4)^x$ **C.** $f(x) = 4 (\frac{1}{2})^x$
- **B.** $f(x) = 4(\frac{1}{2})^x$ **D.** $f(x) = 4(2)^x$

16) What is the equation in slope-intercept form of the line that passes through the points (-1,4) and (3,24)?

- **A.** y = 9x + 5 **C.** y = 0.2x + 5
- **B.** v = 0.2x + 9 **D.** v = 5x + 9

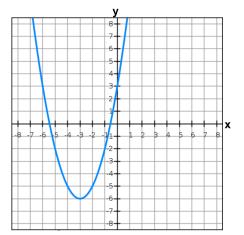
17) The **table** shows a linear relationship between x and y.

x	-4	0	10	12
у	8	12	17	18

What is the **rate of change** of y with respect to x?

- **A.** -2 **B.** $-\frac{1}{2}$ **C.** $\frac{1}{2}$ **D.** 2

18) The graph of a **quadratic function** is shown on the grid.



Which function is best represented by this graph?

- **A.** $f(x) = x^2 + 3x + 6$ **C.** $f(x) = x^2 3x + 6$
- **B.** $f(x) = x^2 + 6x + 3$ **D.** $f(x) = x^2 6x + 3$

Name : _____ Pd: ___ Date : ____ Algebra 1 End Of Course Review - Practice 2

100

Answer Key-2

1	С
2	В
3	Α
4	В
5	D
6	3
7	D
8	С
9	В
10	A
11	0.5

Answer Key-2

12	С
13	A
14	12
15	В
16	D
17	С
18	В