ALC Liberal Arts Math

Unit 8

1. An equation in the form of *ax*2 + *bx* + *c* = 0

a. linear equation

b. solution set ({ })

c. quadratic equation

d. factored form

2. The set of values that make an equation or inequality true

a. linear equation

b. solution set ({ })

c. quadratic equation

d. factored form

3. The measure in square units of the inside region of a two dimensional

figure is called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. consecutive

b. rectangle

c. area (*A*)

d. width (*w*)

4. \_\_\_\_\_\_\_\_\_\_\_\_\_ means the numbers are in order.

a. consecutive

b. rectangle

c. area (*A*)

d. width (*w*)

5. A monomial expressed as the product of prime numbers and variables, where no variable has an exponent greater than 1.

a. linear equation

b. solution set ({ })

c. quadratic equation

d. factored form

6. The product of two consecutive positive integers is 72. What are the integers?

a. -8 and -9

b. 7 and 8

c. 8 and 9

d. 6 and 12

7. The product of two consecutive negative odd integers is 35. What are the integers?

a. -5 and -7

b. 5 and 7

c. 4 and 8.75

d. 1 and 35

8. The product of two consecutive positive integers is 90. What are the integers?

a. 6 and 16

b. 9 and 10

c. -9 and -10

d. 3 and 30

9. What is the solution set of (*x* + 4)(*x* – 2) = 0

a.

b.

c.

d.

10. What is solution set of (*x* – 5)(*x* + 3) = 0

a.

b.

c.

d.

11. What is solution set of (*x* – 5)(*x* – 7) = 0

a.

b.

c.

d.

12. What is solution set of *x*(*x* – 16) = 0

a.

b.

c.

d.

13. What is solution set of (*x* – 5)(2*x* + 6) = 0

a.

b.

c.

d.

14. What is solution set of (3*x* – 5)(5*x* + 10) = 0

a.

b.

c.

d.

15. What is solution set of (10*x* – 4)(*x* + 5) = 0

a.

b.

c.

d.

16. Solve the following x2-2x+1=0

a. x = -1

b. x = 0

c. x = 2

d. x = 1

17. Solve the following x2+6x+9=0

a. x = 3

b. x = 0

c. x = -3

d. x = 1

18. Solve the following x2-6x+5=0

a. x = 1 or x = 5

b. x = -1 or x = -5

c. x = 1 or x = -5

d. x = -1 or x = 5

19. Solve the following x2-13x+12=0

a. x = -12 or x = 1

b. x = -12 or x = -1

c. x = 12 or x = -1

d. x = 12 or x = 1

20. Solve the following x2+x-20=0

a. x = 5 or x = 4

b. x = -5 or x = 4

c. x = -5 or x = -4

d. x = 5 or x = -4