**Algebra/Trig Review Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. If , then

(A) 1 (B) 3 (C) 5 (D) 7

2. If

3. What are all values of for which

(A) All real numbers (B) All

(C) All (D) All

4. If then

(A) 5 (B) 14 (C) 25 (D)

(A) (B) (C) (D)

6. If equals

7. You are asked to write a quadratic equation where the sum of the roots is -3, and the product of the roots is -9. Which equation meets these requirements?

(A) (B)

(C) (D)

9. Where defined,

(A) 1 (B) (C) (D)

10. If , which of the following indicates all possible values of ?

(A) All real numbers (B) All

(C) All (D) All

11.

(A) (B)

(C) (D)

12. What is the domain of

(A) (B) (C) (D)

14. Which of the following is NOT the graph of a function

(A) (B) (C) (D)



(A) 30˚ (B) 60˚ (C) 90˚ (D) 120˚

16.

In the figure above, which of the following relations is true?

17. What is the solution set for the equation

(A) { } (B) {4.5} (C) {4.5, -1.5} (D) {-4.5, -1.5}

18. What is one solution for the accompanying system of equations?

(A) (3, 0) (B) (4, 7) (C) (0, -3) (D) (7, 4)

20.

*h*

3

21. Which interval represents the range of the function

(A) (1, ∞) (B) (-1, ∞) (C) [1, ∞) (D) [-1, ∞)

22. Find the exact value of

23

24.



25. If is an angle in standard position and (-3, 4) is a point on the terminal side of , what is the value of ?

27. A solution set of the equation contains all multiples of

(A) (B) (C) (D)



28. The graph corresponds to which function?

29. What is the solution set of the equation

(A) (B) {2} (C) (D) {2,3}

32. Given

(A) (B)

(C) (D)

33.

(A)

(C) (D) All values less than 3, except -2.

34.

(A) (B) (C) (D) Not Given

35. Determine the slope of a line that contains the point (12,-3) and (12,5).

(A) 0 (B) -8 (C) 8 (D) Undefined

36.

39. Find the linear equation containing the points (5,2) and (-1,1).

40. Determine the point at which the lines

(A) (-3,3) (B) (-21,15) (C) (3,4) (D) No Solution

(A) 2 (B) 0 (C) -3 (D) -1

43. Find the

(A) {0, 2} (B) {1, 0} (C) {-1, -2} (D) Not Given

44. Find and simplify

(A) (B)

(C) (D)

45. State the domain of the function

46.

47. Simplify the expression

(A) (B)

 (D)

48. Convert 30˚ to radians.

49. Simplify the trigonemetric expression

50. Solve the trigonemtric equation for



51. A 12ft-long ladder is leaning against the side of a building. The base of the ladder is 6ft from the base of the building. Approximately how far up the side of the building does the ladder reach?

(A) 13.4 feet (B) 10.4 feet (C) 8 feet (D) Not enough information.