

Beginning Algebra

Name: _____

Study Guide 3

Class: _____

Due Date: _____

Score: _____

No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

1. (2 points) Is -5 is a solution of the equation $4(x - 2) + 20 = x - 3$?

1. _____

2. (2 points) Is -2 is a solution of the equation $-2x^2 + 4 = 4x$?

2. _____

3. (2 points) Is -4 a solution for $|3x - 5| = -17$?

3. _____

4. (2 points) Is 7 a solution for $\sqrt{x^2 - 13} - 3 = 3$?

4. _____

5. (2 points) Solve: $-5x + 3 = -22$

5. _____

6. (2 points) Solve: $3(x - 7) - x + 1 = -40$

6. _____

7. (3 points) Solve: $2(3x - 5) - (x + 7) = -17$

7. _____

8. (3 points) Solve: $4(x + 3) - 2(-3x + 5) - 5x + 48 = 0$

8. _____

9. (3 points) The sum of 7 and twice some number is equal to -7 . Find the number.

9. _____

10. (3 points) The difference of 12 and three times some number is equal to -9 . Find the number.

10. _____

11. (2 points) Solve: $8(2 - x) + x = -4x$

11. _____

12. (2 points) Solve: $-2x + 5 = -25 + 3x$

12. _____

13. (2 points) Solve: $3(2x - 7) + 6 = x - 40$

13. _____

14. (2 points) Solve: $2(3x - 5) - (2x - 7) = 4x + 3$

14. _____

15. (3 points) Twice the sum of 7 and some number is equal to -7 less than the number. Find the number.

15. _____

16. (3 points) Negative three times the difference of 12 and twice some number is equal to 36. Find the number.

16. _____

17. (3 points) Solve: $\frac{2}{3}x - \frac{1}{2} = \frac{5}{6}x$

17. _____

18. (3 points) Solve: $.25x + .05(x + 8) = 1.6$

18. _____

19. (2 points) Solve: $3(x - 1) + 2(x + 5) = 5x + 13$

19. _____

20. (2 points) Solve: $-3(2x + 4) + 10 = 2(3x - 1)$

20. _____

21. (2 points) Twice some number reduced by 5, the result is equal to -5 . Find the number.

21. _____