

Algebra 1 skills you should know before starting Algebra 2 Name: _____

Leave fractional answers but reduce if possible. Do NOT give decimal answers unless there is a decimal in the question. Show ALL WORK on a SEPARATE SHEET and attach to the back.

NO WORK = NO CREDIT!!!!!!!

Due on the FIRST day of school. = First Daily Grade

SOLVE

1. $3x - 5 = 22$

2. $5x + 3 = 7x - 8$

3. $\frac{y}{5} - 10 = 20$

4. $2(3x - 1) = 4x + 8$

5. $\frac{2w + w - 4}{3} = \frac{2}{5}$

6. $\frac{2}{3}t = 12$

7. $3z - 6 > 5z + 12$

8. $13 < \frac{1}{2}(y - 5)$

9. $\frac{x}{2} + \frac{x}{4} = \frac{3}{8}$

10. $14 - 3(2w + 5) \leq 5 - (3 - w)$

11. Solve for y. $3x + 2y = 8$

FACTOR

12. $x^2 + 5x + 6$

13. $x^2 - 5x + 6$

14. $x^2 + 5x - 6$

15. $x^2 - 5x + 6$

16. $y^2 - 9$

17. $3x^2 + 7x + 4$

18. $5x^2 + 7x - 6$

19. $12w^2 - 28w + 15$

20. $16y^2 - 25$

SIMPLIFY

21. $(2 + 3)^2 - 4(3 - 5)$

22. $24 \div 2 \cdot 6$

23. $24 \div (2 \cdot 6)$

24. $(-5)^2$

25. -5^2

26. 7^1

27. 7^0

28. $\sqrt{64}$

29. 3^{-2}

30. $|3 - 8|$

31. $2 - 5|4 + 6|$

32. $\left(\frac{2}{3}\right)^{-2}$

33. $\frac{1}{2} + \frac{2}{3}$

34. $\frac{1}{2} \cdot \frac{2}{3}$

35. $\frac{1}{2} \div \frac{2}{3}$

EVALUATE if $a = -2$, $b = 3$, $c = -1$

36. $ab - c$

37. $5a + 2b$

38. $(b - c)^a$

36. _____

37. _____

38. _____

33. _____

34. _____

35. _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

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