

ALGEBRA I REVIEW

Name _____ Block _____

SOLVE/DO THE FOLLOWING PROBLEMS; WRITE ANSWERS ON YOUR ANSWER SHEET

SOLVE THE FOLLOWING LINEAR EQUATIONS:

1. $\frac{1}{3}x + 6 = -8$

2. $7x - 3x - 8 = 24$

3. $18 - 3(x + 2) = 21$

4. $-28 = 2(x + 3) - 5(x - 1)$

5. $7x + 19 = -2x + 55$

6. $4(1 - x) + 3x = -2(x + 1)$

7. $\frac{1}{4}(12x + 16) = 10 - 3(x - 2)$

8. $7(2 - x) = 5x$

GRAPH THE FOLLOWING LINEAR EQUATIONS:

9. $x + y = 8$

10. $2x - 3y = 4$

11. Find the slope of the line passing through $(-2, 0)$ and $(3, 1)$

12. Write the equation of a line with slope $\frac{1}{2}$ and containing $(4, -6)$.

SOLVE THE FOLLOWING LINEAR SYSTEMS:

13. $\begin{cases} 4x + 3y = 5 \\ 2x - 3y = 1 \end{cases}$

14. $\begin{cases} 3x + 5y = 6 \\ 4x - 2y = -5 \end{cases}$

MULTIPLY THE FOLLOWING:

15. $(x + 2)(x + 4)$

16. $(2x - 3)(x - 2)$

17. $3(x - 1)(x + 4)$

FACTOR THE FOLLOWING:

18. $x^2 - 25$

19. $4x^2 - 16$

20. $x^2 + 3x + 2$

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

22. $x^2 - 10x + 25$

23. $6x^2 + 7x - 5$

SOLVE THE FOLLOWING QUADRATIC EQUATIONS:

24. $x^2 - x - 12 = 0$

25. $3x^2 + 5x = 12$

26. $2x^2 - 3x = 8$

SIMPLIFY THE FOLLOWING:

27. $\sqrt{50}$

28. $\frac{1}{\sqrt{2}}$

29. $(2\sqrt{3})^2$

30. $5\sqrt{8}$

SOLVE THE FOLLOWING EQUATIONS:

31. $3^2 + 4^2 = x^2$

32. $x^2 + 5^2 = 10^2$

33. $x^2 + 5^2 = (5\sqrt{2})^2$

ALGEBRA 1 REVIEW ANSWERS

Name _____ Block _____

1. _____

2. _____

3. _____

4. _____

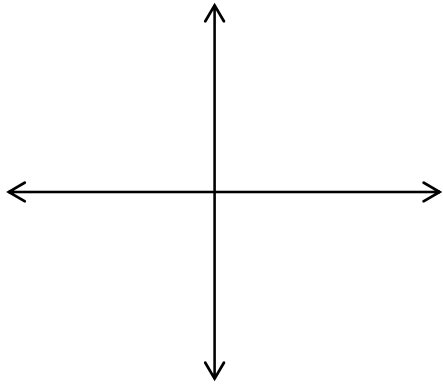
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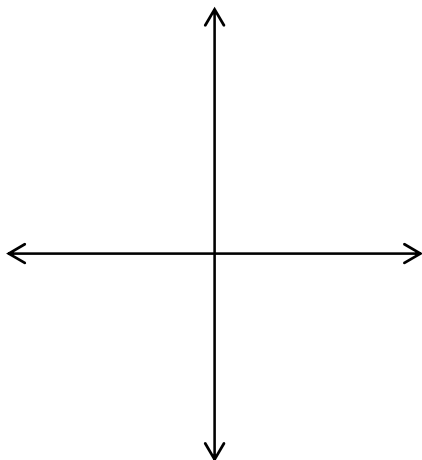
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