

ALGEBRA I REVIEW

Name _____ Block _____

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

SOLVE THE FOLLOWING:

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

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

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

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

5. $2(2 - x) \leq -3x - 2$

6. $|x + 2| \geq 8$

GRAPH THE FOLLOWING:

7. $x + y = 8$

8. $2x - 3y = 4$

9. $y \leq -\frac{1}{3}x + 4$

10. $\begin{cases} 3x - 2y < 6 \\ y \leq 2x - 5 \end{cases}$

11. $y = x^2 + 4x - 3$

12. $y = -2x^2 + 8x$

13. Find the slope of the line passing through $(5, -2)$ and $(3, 1)$

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

SOLVE THE FOLLOWING:

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

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

MULTIPLY THE FOLLOWING:

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

18. $(2x - 3)(x - 2)$

19. $3(x - 1)(x + 4)$

FACTOR THE FOLLOWING:

20. $x^2 - 25$

21. $4x^2 - 16$

22. $x^2 + 3x + 2$

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

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

25. $6x^2 + 7x - 5$

SIMPLIFY THE FOLLOWING:

26. $\sqrt{50}$

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

28. $(2\sqrt{3})^2$

29. $5\sqrt{8}$

SOLVE THE FOLLOWING:

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

31. $(x + 3)^2 = 36$

32. $2x^2 - 4x - 3 = 0$

33. $\sqrt{2x + 3} = x$

ALGEBRA 1 REVIEW ANSWERS

Name _____ Block _____

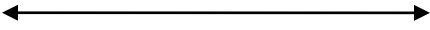
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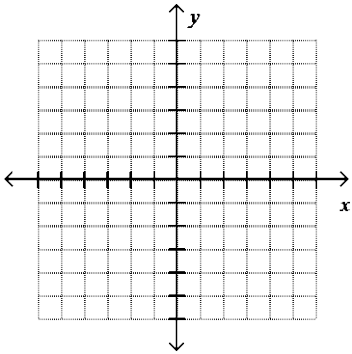
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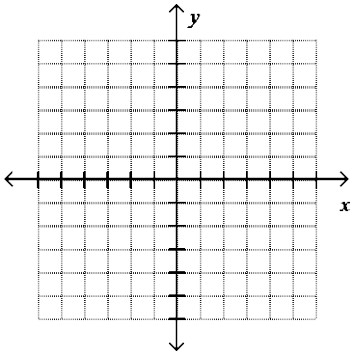
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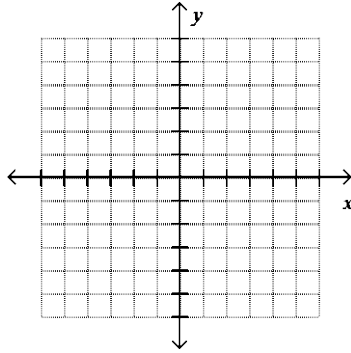
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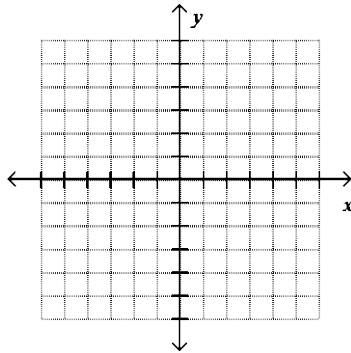
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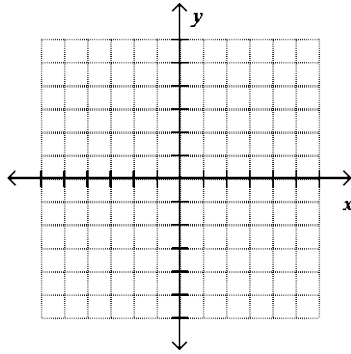
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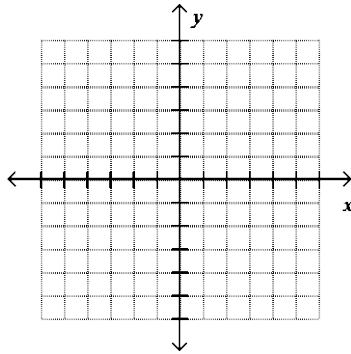
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