

Algebra 2 Review Packet

Algebra 2 Review Packet Pg. 3 Answer Key

Write each in slope-intercept form.

29. $y = 2x^2$ **Correct**

30. $y = 1,001,962$ **Correct**

Write each in slope-intercept form.

31. $2x = 5$ **Correct**

32. $x^2 = 12x$ **Correct**

Write each expression as a single logarithm.

33. $\log 8 + \log 5$ **Correct**

34. $\log 20 = \log$ **Correct**

Expand each logarithm.

35. $\log_3 3x^2 y^2$ **Correct**

36. $\log_2 \frac{x^2}{y}$ **Correct**

Solve each equation.

37. $\log 2x = -1$ **Correct**

38. $\sqrt{3x} = 20$ **Correct**

Algebra 2 Review Packet Pg. 4

Simplify each rational expression. What are the restrictions on the variables?

39. $\frac{x^2 + 9x + 18}{x + 6}$ **Correct**

40. $\frac{x^2 - 2x - 8}{x + 3} = \frac{x + 4}{x + 3}$ **Correct**

Add or subtract. Simplify where possible.

41. $\frac{3x+1}{x+2} + \frac{2x-5}{2x+4}$ **Correct**

42. $\frac{1}{x^2} - \frac{1}{x^2}$ **Correct**

Solve each equation. Check your answer.

43. $\frac{x}{6} = \frac{x+2}{8}$ **Correct**

44. $\frac{x}{6} + \frac{x}{2} = 7$ **Correct**

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