

Algebra 2 Review Packet

Algebra 2 Review Packet Pg. 3 Student Key

Without graphing, determine whether each equation represents exponential growth or decay.

27. $y = 2(3)^x$ **growth**

28. $y = 3(0.5)^x$ **decay**

Write each in slope-intercept form.

29. $3x + 5y = 15$ **$y = -\frac{3}{5}x + 3$**

30. $4y = 12x$ **$y = 3x$**

Write each expression as a single logarithm.

31. $\log_2 4 + \log_2 8$ **$\log_2 32$**

32. $\log_2 20 + \log_2 5$ **$\log_2 100$**

Expand each logarithm.

33. $\log_2 (3x^2y^3)$ **$\log_2 3 + 2\log_2 x + 3\log_2 y$**

34. $\log_2 \frac{y^2}{x}$ **$2\log_2 y - \log_2 x$**

Solve each equation.

35. $\log_2 24 = 5$ **$24 = 2^5$**

36. $3^{2x} = 27$ **$x = 1$**

Algebra 2 Review Packet Pg. 4

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

37. $\frac{x^2 + 5x + 6}{x + 3}$ **$\frac{x+2}{1}$**

38. $\frac{x^2 - 2x + 8}{x + 2} + \frac{x+6}{x+2}$ **$\frac{x^2 - x + 10}{x+2}$**

Add or subtract. Simplify where possible.

39. $\frac{3x+1}{x+2} + \frac{2x+5}{x+2}$ **$\frac{5x+6}{x+2}$**

40. $\frac{x}{x^2-1} + \frac{2}{x-1}$ **$\frac{x+2}{(x-1)^2}$**

Solve each equation. Check your answers.

41. $\frac{x}{x+2} + \frac{x+2}{x} = 3$ **$x = 2$**

42. $\frac{x}{x+2} + \frac{x+2}{x} = 1$ **$x = 2$**

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Algebra 2 Study Packet

Reza Nazari



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