

Honors Algebra 2 - Logs and exponents Review Guide

Heading:

Key

Solve the following equations. Show your work using the appropriate strategies and properties. All answers must be in simplified, exact form (base 10 or base e). Review all worksheets and homework for solving equations, graphing, and modeling. This worksheet is representative of the material on your test, but does not necessarily include all problems.

1. $\log_3(3x-1) - \log_3 3 = \log_3(2x+4)$

$$\log_3\left(\frac{3x-1}{3}\right) = \log_3(2x+4)$$

$$\frac{3x-1}{3} = 2x+4$$

$$3x-1 = 6x+12$$

$$\cancel{x} = \cancel{15}$$

3. $\log_{10} x = \frac{2}{10}$

$$x = 100$$

5. $2^{4x+1} = 32^{3x}$

$$2^{4x+1} = (2^5)^{3x}$$

$$4x+1 = 15x$$

$$\boxed{x = \frac{1}{11}}$$

7. $5^{x+3} = 13^{x+6}$

$$(x+3)\log 5 = (x+6)\log 13$$

$$x\log 5 + 3\log 5 = x\log 13 + 6\log 13$$

$$x\log 5 - x\log 13 = 6\log 13 - 3\log 5$$

$$(x\log 5 - x\log 13) = 6\log 13 - 3\log 5$$

$$x = \frac{6\log 13 - 3\log 5}{\log 5 - \log 13}$$

9. $\log_5(x+3) + \log_5 x = \log_5 4$

$$\log_5 x(x+3) = \log_5 4$$

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

$$x^2+3x-4 = 0$$

$$(x+4)(x-1) = 0$$

$$\boxed{x = 1}$$

11. $\log 8x + \log x + \log(x+2) = \log(16x^2+1)$

$$\log 8x \cdot x \cdot (x+2) = \log(16x^2+1)$$

$$8x^2(x+2) = 16x^2+1$$

$$8x^3+16x^2 = 16x^2+1$$

$$8x^3-1=0 \quad (2x-1)(4x^2+2x+1)=0 \quad \boxed{x = \frac{1}{2}}$$

2. $\frac{1}{2} \ln x + 2 = 7$

$$\frac{1}{2} \ln x = 5$$

$$\ln x = 10$$

$$\boxed{x = e^{10}}$$

4. $\ln 6 + 2 \ln x = \ln 54$

$$\ln 6 + \ln x^2 = \ln 54$$

$$\ln(6x^2) = \ln 54$$

$$6x^2 = 54$$

$$x^2 = 9$$

$$\boxed{x = 3}$$

6. $\log_4 5 - \log_4 x = \frac{1}{2}$

$$\log_4\left(\frac{5}{x}\right) = \frac{1}{2}$$

$$\frac{5}{x} = 2$$

$$\boxed{x = \frac{5}{2}}$$

8. $\log_3(\log_4 x) = \frac{1}{3}$

$$\log_4 x = 3$$

$$\boxed{x = 64}$$

10. $3e^{2x-1} = 12$

$$e^{2x-1} = 4$$

$$2x-1 = \ln 4$$

$$2x = \ln(4) + 1$$

$$\boxed{x = \frac{\ln(4) + 1}{2}}$$

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

$$\ln \sqrt{2x+3} = \ln \frac{3}{2}$$

$$\sqrt{2x+3} = \frac{3}{2}$$

$$\frac{\sqrt{2x+3}}{4} = \frac{3}{2}$$

$$2\sqrt{2x+3} = 12$$

$$\sqrt{2x+3} = 6$$

$$2x+3 = 36$$

$$2x = 33 \quad \boxed{x = \frac{33}{2}}$$

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Michael Hoelscher



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