

# Solving Log & Exp Equations Worksheet

2.  $\log_3 (3x-2) = 2$

$$3^2 = 3x-2$$

$$11 = 3x$$

$$x = \frac{11}{3} \checkmark$$

4.  $\log_5 (x^2+x+4) = 2$

$$5^2 = x^2+x+4$$

$$0 = x^2+x-21$$

$$x = \frac{-1 \pm \sqrt{1-4(1)(-21)}}{2}$$

$$x = \frac{-1 \pm \sqrt{85}}{2}$$

$$x = \frac{-1 + \sqrt{85}}{2} \checkmark$$

$$x = \frac{-1 - \sqrt{85}}{2}$$

6.  $-2\log_4 X = \log_4 9$

$$\log_4 x^{-2} = \log_4 9$$

$$x^{-2} = 9$$

$$\frac{1}{x^2} = 9$$

$$9x^2 = 1$$

$$x^2 = \frac{1}{9}$$

$$x = \pm \frac{1}{3} \quad \begin{array}{l} \swarrow \frac{1}{3} \checkmark \\ \searrow \frac{1}{3} \end{array}$$

8.  $3\log_2 X = -\log_2 27$

$$\log_2 x^3 = \log_2 \frac{1}{27}$$

$$x^3 = \frac{1}{27}$$

$$\boxed{x = \frac{1}{3}} \checkmark$$

10.  $2\log_3 (x+4) - \log_3 9 = 2$

$$\log_3 \left( \frac{(x+4)^2}{9} \right) = 2$$

$$9 = \frac{(x+4)^2}{9}$$

$$81 = (x+4)^2$$

$$\pm 9 = x+4$$

$$\boxed{x = 5} \quad x = -13$$

12.  $\log_4 X + \log_4 (x-3) =$

$$\log_4 (x^2-3x) = 1$$

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

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

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

$$\boxed{x = 4} \quad x = -1$$

# Skills Practice 8 4 Solving Logarithmic Equation And Inequalities

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