

Pre Calculus Equations - Practice Worksheet

Name: _____ Date: _____

Instructions: Solve each equation. Show all steps. Check your answer by substituting back into the original equation.

1. Solve: $2x^2 - 8 = 0$

2. Solve: $x^2 - 5x + 6 = 0$

3. Solve: $(x - 1)/(x + 2) = 3$

4. Solve: $\sqrt{x + 5} = 4$

5. Solve: $2^x = 32$

6. Solve: $\log_2(x) = 4$

7. Solve: $|2x - 3| = 7$

8. Solve: $\sin(x) = 1/2$ for $0 \leq x < 2\pi$

9. Solve: $3^{(2x - 1)} = 27$

10. Solve: $\log(x) + \log(x - 3) = 1$

11. Solve: $(x^2 - 4)/(x - 2) = 0$

12. Solve: $2\sin^2(x) - \sin(x) - 1 = 0$ for $0 \leq x < 2\pi$

Answer Key

1. $x = 2$ or $x = -2$

2. $x = 2$ or $x = 3$

3. $x = -7/2$

4. $x = 11$

5. $x = 5$

6. $x = 16$

7. $x = 5$ or $x = -2$

8. $x = \pi/6$ or $x = 5\pi/6$

9. $x = 2$

10. $x = 5$

11. $x = -2$ ($x = 2$ is excluded, extraneous)

12. $x = 3\pi/2, \pi/6, 5\pi/6$

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