

EQUATIONS

MATH 73

LAST NAME	FIRST NAME	DATE
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1 (2 points). Solve the equation:

$$2(x - 7) = 4(5 - 3x) + 8$$

2 (2 points). Solve the equation:

$$x^2 + 2x - 24 = 0$$

3. Solve the formula for y :

$$y + 7x = 3(y - 5x) + 4$$

4. Solve the formula for x :

$$y = \sqrt[3]{8 - 2x}$$

5 (2 points). Solve the equation:

$$x^5(x + 4)(2x - 3)(x^2 - 1) = 0$$

6 (2 points). Write an equation with the solution set $\{-7, 0, 1/2\}$.

7 (2 points). Solve the equation:

$$\sqrt{7x + 1} = 6$$

8. Solve the equation:

$$\sqrt{x^2} = x$$

9. Solve the equation:

$$\frac{1}{x-1} + \frac{3}{x+1} = \frac{-18}{x^2-1}$$

10. Use the quadratic formula to find φ , the golden ratio:

$$\varphi - 1 = \frac{1}{\varphi}$$