

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

State the type of equation. Solve each equation for the variable. Write the domain. SHOW WORK!

1.  $3(4x - 2) + 1 = 4x + 11$

Type: \_\_\_\_\_

Domain: \_\_\_\_\_

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

Type: \_\_\_\_\_

Domain: \_\_\_\_\_

3.  $-\sqrt{x+1} - 3 = -7$

Type: \_\_\_\_\_

Domain: \_\_\_\_\_

4.  $2x^3 - 1 = 53$

Type: \_\_\_\_\_

Domain: \_\_\_\_\_

5.  $\sqrt[3]{5x} + 2 = 8$

Type: \_\_\_\_\_

Domain: \_\_\_\_\_

6.  $\frac{3}{x} + 4 = 5$

Type: \_\_\_\_\_

Domain: \_\_\_\_\_

7.  $4\sqrt{3x - 1} = 12$

Type: \_\_\_\_\_

Domain: \_\_\_\_\_

8.  $(x - 2)^2 + 1 = 10$

Type: \_\_\_\_\_

Domain: \_\_\_\_\_