Simplify Radical Equations - Practice
Simplify the following problems. Be sure to check your answers.

1. \( x^3 = 8 \)

2. \( x = \sqrt{-6x + 7} \)

3. \( x = \sqrt{8x - 7} \)

4. \( x^2 - 36 = 0 \)

5. \((x + 5)^2 = 7\)

6. \( x + 2 = \sqrt{-2x - 1} \)

7. \( x + 2 = \sqrt{21} \)

8. \((x + 3)^2 = 116\)

9. \((x - 3)^2 = -64\)

10. \( x = \sqrt{6x + 29} \)

Solutions:

1. \( x = 2 \) 2. \( x = 1 \) 3. \( x = 1, 7 \) 4. \( x = -6, 6 \)

5. \( x = 5 - \sqrt{7}, 5 + \sqrt{7} \) 6. \( x = -1 \) 7. \( x = -2 - \sqrt{21}, -2 + \sqrt{21} \)

8. \( x = -3 - 2\sqrt{29}, -3 + 2\sqrt{29} \) 9. \( x = 3 - 8i, 3 + 8i \) 10. \( x = 3 - \sqrt{28}, 3 + \sqrt{28} \)

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