Solving Equation Review and Practice

Solve each equation, show all your work.

1. Linear Equations: Solve for x.

a. $7x - 8 = 14$

b. $3x - 17 = -2x + 19$

c. $\dfrac{2x}{3} - 4 = 1$

d. $2x + 3y - 9 = 0$

2. Radical Equations: Solve for x.

a. $2\sqrt{x-4} + 7 = 13$

b. $-\sqrt{x+4} - 5 = 3$

3. Quadratic Equations: Solve for x.

a. $x^2 - 5x = 14$

b. $2x^2 = 5x - 3$