Algebra 1 ECA Remediation   Name_____

Quiz 32.2

Solve each equation by completing the square.

1) $x^2 - 12x - 4 = 9$

    A) $\{7 + \sqrt{58}, 7 - \sqrt{58}\}$
    B) $\{9 + \sqrt{74}, 9 - \sqrt{74}\}$
    C) $\{-4 + 3\sqrt{11}, -4 - 3\sqrt{11}\}$
    D) $\{13, -1\}$

2) $x^2 - 20x + 70 = 6$

    A) $\{20 + 4\sqrt{21}, 20 - 4\sqrt{21}\}$
    B) $\{10 + 2\sqrt{41}, 10 - 2\sqrt{41}\}$
    C) $\{6 + 2\sqrt{6}, 6 - 2\sqrt{6}\}$
    D) $\{16, 4\}$

Simplify. Your answer should contain only positive exponents.

3) $uv^4 \cdot 4vu^3$

    A) $\dfrac{12}{v^3}$ B) $\dfrac{6}{v^2}$

    C) $4u^4v^5$ D) $\dfrac{12u^3}{v^3}$

4) $\left(2x^{-3}\right)^2 \cdot x^{-1}$

    A) $\dfrac{y^5}{x^4}$ B) $\dfrac{1}{x^8y^{12}}$

    C) $\dfrac{4}{x^7}$ D) $512x^{15}y^9$