

Quiz 32.1

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Solve each equation by completing the square.

1) $x^2 + 10x + 14 = 5$

A) {11, 9}

B) {2, -4}

C) {-1, -9}

D) No solution.

2) $n^2 + 2n - 62 = -6$

A) $\{-1 + \sqrt{57}, -1 - \sqrt{57}\}$

B) $\{-7 + \sqrt{95}, -7 - \sqrt{95}\}$

C) $\{-14 + 5\sqrt{6}, -14 - 5\sqrt{6}\}$

D) $\{-7 + \sqrt{3}, -7 - \sqrt{3}\}$

Simplify. Your answer should contain only positive exponents.

3) $x^{-2}y^{-1} \cdot 3x^4$

A) $\frac{3x^2}{y}$

B) $8x^2$

C) $2y^2x^2$

D) $\frac{3}{y^4}$

4) $a^0b^3 \cdot (b^{-3})^{-4}$

A) $64a^{12}b^{11}$

B) b^{15}

C) b^4a^{14}

D) $4a^4b^4$