

Algebra Review 2

Solve the following.

1. $(x-3)(x+1) = 5$

2. $3x^2 - 7x - 2 = 0$

Simplify.

3. x^5x^7

4. $\frac{z^9}{z^3}$

5. $(y^3)^5$

6. $(3w^2)^4$

Hints.

1. Simplify. Put everything on one side of the equation, equal to 0. Factor.
2. Use the quadratic formula.
3. Add exponents.
4. Subtract exponents.
5. Multiply exponents.
6. The exponent 4 applies both to the 3 and to the w^2

Answers: 1. $4, -2$ 2. $\frac{7 \pm \sqrt{73}}{6}$ 3. x^{12} 4. z^6 5. y^{15} 6. $81w^8$