

Solving Polynomials

Find the roots of each of the following polynomials. Recall that you may need to factor out a GCF before factoring the remaining trinomial.

1. $x^3 + x^2 - 6x$

2. $2x^4 - 12x^3 + 18x^2$

3. $10x^4 - 90x^2$

4. $x^3 - 7x^2 + 12x$

5. $x(3x - 5)(x - 4) = 0$

6. $7x^3 - 42x^2 - 3x + 18$