

Solving Polynomials by Factoring

Use the zero product property to solve the factored polynomial

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

2) $y = (x^2 + 2)(x - 4)$

3) $f(x) = (x^2 - 3)(2x + 9)(x - 7)$

Solve the polynomials by factoring

4) $f(x) = 2x^3 - 3x^2 - 10x + 15$

5) $y = x^3 + 3x^2 - 2x - 6$

6) $f(x) = x^3 - 8$