

Factor Theorem

Find all zeros. One zero has been given.

1) $f(x) = x^3 + 4x^2 - 11x - 30$; -5

2) $f(x) = x^3 - 2x^2 - 25x + 50$; 2

3) $f(x) = x^3 - 5x^2 - 9x + 45$; 5

4) $f(x) = x^3 + 6x^2 + 3x - 10$; -2

5) $f(x) = x^3 + x^2 - 22x - 40$; 5

6) $f(x) = x^3 + 5x^2 - 9x - 45$; -3

$$7) f(x) = 2x^3 - x^2 - 7x + 6; -2$$

$$8) f(x) = 3x^3 + 8x^2 - 13x - 30; 2$$

$$9) f(x) = 5x^3 + 13x^2 + 4x - 4; -2$$

$$10) f(x) = 5x^3 - 8x^2 - 44x - 16; -2$$

$$11) f(x) = 2x^3 - 21x^2 + 70x - 75; 5$$

$$12) f(x) = 6x^3 + 19x^2 - 45x - 100; -\frac{5}{3}$$