

More on Factors, Zeros, and Dividing

Factor each and find all zeros. One factor has been given.

1) $f(x) = x^3 + 9x^2 + 23x + 15; x + 5$

2) $f(x) = x^3 - x^2 - 14x + 24; x - 3$

3) $f(x) = x^4 + 3x^3 - 13x^2 - 15x; x - 3$

4) $f(x) = x^3 - 12x^2 + 47x - 60; x - 3$

5) $f(x) = x^3 - 7x^2 + 2x + 40; x - 5$

6) $f(x) = x^3 - 3x^2 - 9x + 27; x - 3$

7) $f(x) = 10x^3 + 37x^2 + 37x + 6; 5x + 1$

8) $f(x) = 25x^3 + 150x^2 + 131x + 30; 5x + 3$

9) $f(x) = 5x^3 + 21x^2 - 21x - 5; x + 5$

10) $f(x) = 3x^3 - 4x^2 - 9x + 10; x - 2$