

**Solve by Factoring and Writing Functions from Roots****Find all zeros.**

1)  $f(x) = 5x^2 - 9x + 4$

2)  $f(x) = 2x^2 + x - 1$

3)  $f(x) = 5x^2 - 17x - 12$

4)  $f(x) = 5x^2 + 7x + 2$

5)  $f(x) = 3x^2 + 11x + 10$

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

7)  $f(x) = 2x^2 - 15x + 25$

8)  $f(x) = 5x^2 - 27x + 10$

9)  $f(x) = 3x^2 - 14x - 5$

10)  $f(x) = 5x^2 - 23x - 10$

**Write a polynomial function of least degree that has real coefficients, the following zeros, and a leading coefficient of 1.**

11)  $-1, 1, -5, -3$

12)  $-4, 2, 0$

13)  $5, 3, 1$

14)  $-2, -5, 4$