

## Polynomial review

Write a polynomial function of least degree with integral coefficients that has the given zeros.

1)  $1, \frac{5}{2}, -1$

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

2) 5 mult. 2,  $\frac{5}{3}$

$$f(x) = 3x^3 - 35x^2 + 125x - 125$$

Find all zeros.

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

$$\{0, 2, 1\}$$

4)  $f(x) = x^4 - 11x^2 + 18$

$$\{3, -3, \sqrt{2}, -\sqrt{2}\}$$

Write the equation of the function given below.

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

