1. (§5.1) Graph polynomial functions.

EG Sketch the graph of
$$f(x) = (x - 2)^2 (x - 3) (x + 1)$$

2. (§5.2,§5.3) Graph rational functions.

EG Sketch the graph of R(x) =
$$\frac{x^2 - x - 12}{x + 1}$$

3. (§5.4) Solve rational inequality.

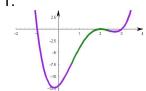
EG Solve
$$\frac{x}{x+2} < \frac{1}{x}$$

4. (§5.5,§5.6) Find zeros of polynomials.

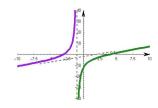
EG Find all the roots/zeros of P(x) =
$$2x^3 - 5x^2 + 6x - 2$$

Short answers:

1.



2.



Detailed answers start next page.