Polynomial Inequalities:

1. $2x^2 + 2x - 12$

   a) Factor:

   b) Find the zeros:

   c) Find intervals:

   d) Test intervals:

   e) Write interval notation for each inequality:

2. $x^3 - 3x^2 - 4x + 12$

   a) Factor:

   b) Find the zeros:

   c) Find intervals:

   d) Test intervals:

   e) Write interval notation for each inequality:

4. $(x - 3)(x + 4)^2(x)$

a) Factor:

b) Find the zeros:

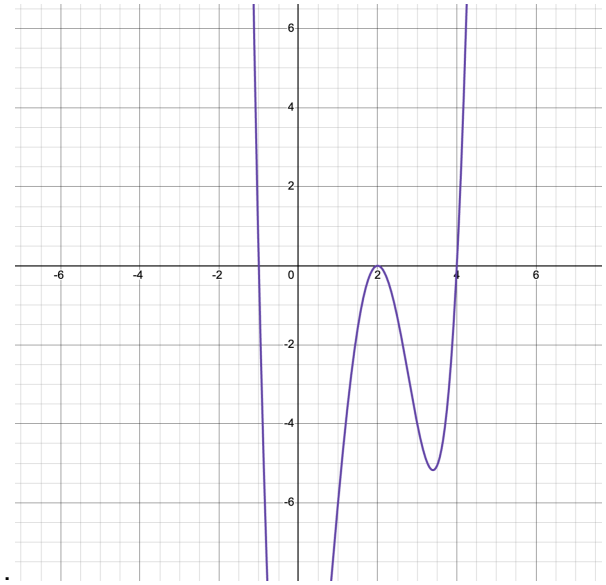
c) Find intervals:

d) Test intervals:

e) Write interval notation for each inequality:

Polynomial Inequalities on a Graph:

1. $p < 0$



a) Find the zeros:

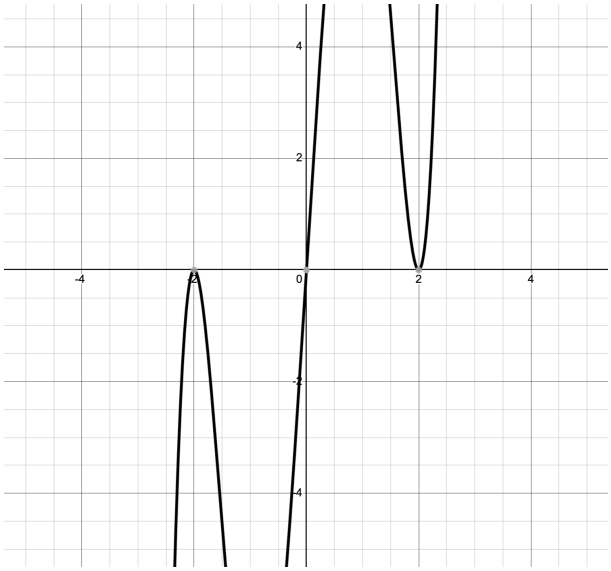
b) Determine the equation:

c) Find intervals:

d) Test intervals:

e) Write interval notation for the inequality:

2. $p \geq 0$



a) Find the zeros:

b) Determine the equation:

c) Find intervals:

d) Test intervals:

e) Write interval notation for the inequality: