Factor each polynomial to determine the solution(s) or *x*-intercept(s), if possible. Then, graph the solution(s), the axis of symmetry, and the vertex.



*x*-intercept(s):

axis of symmetry: *x* =

vertex:

Х

x-intercept(s):

axis of symmetry: *x* =

vertex:



4.  $-2x^2 - 12x - 16$ 

x-intercept(s):

axis of symmetry: *x* =

vertex:

