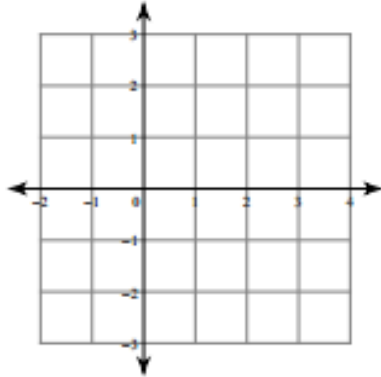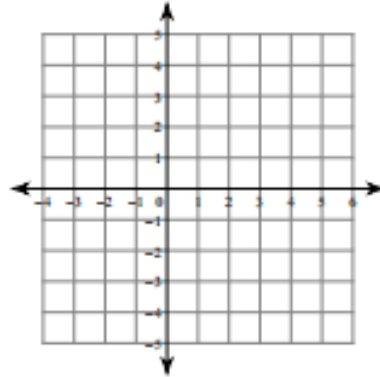# Graph using Vertex & Roots

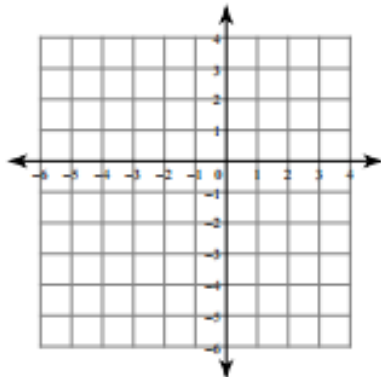Graph the following equations by finding the roots, vertex, and AOS.
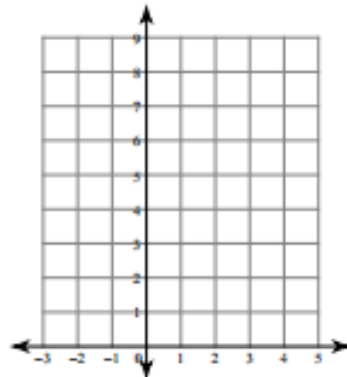
7) $f(x) = -x^2 + 4x - 2$
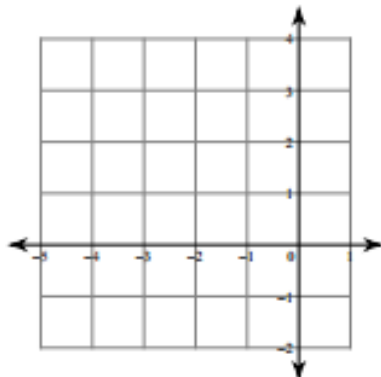
8) $f(x) = 2x^2 - 4x - 2$

9) $f(x) = -2x^2 - 8x - 5$

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

11) $f(x) = x^2 + 4x + 3$

12) $f(x) = -x^2 - 2x$