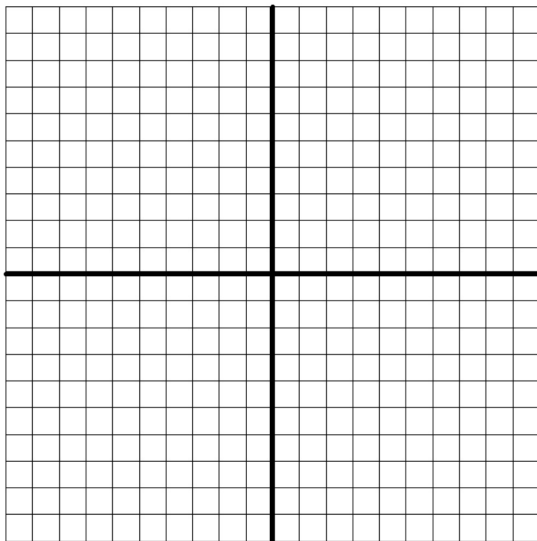1. Find the x-intercepts of each by factoring.

a) $y = 48x^3 - 75x$ b. $y = x^2 + 2x - 80$

2. Solve each equation by factoring.

a) $3a^2 + 11a - 60 = 0$ b) $12m^2 + 15m\ m = 0$

3. Graph the following quadratic using the vertex and two points on each side. $y = x^2 - 12x + 31$

4. Solve this quadratic using square roots. Give noninteger answers as fractions.

$72x^2 - 50 = 0$