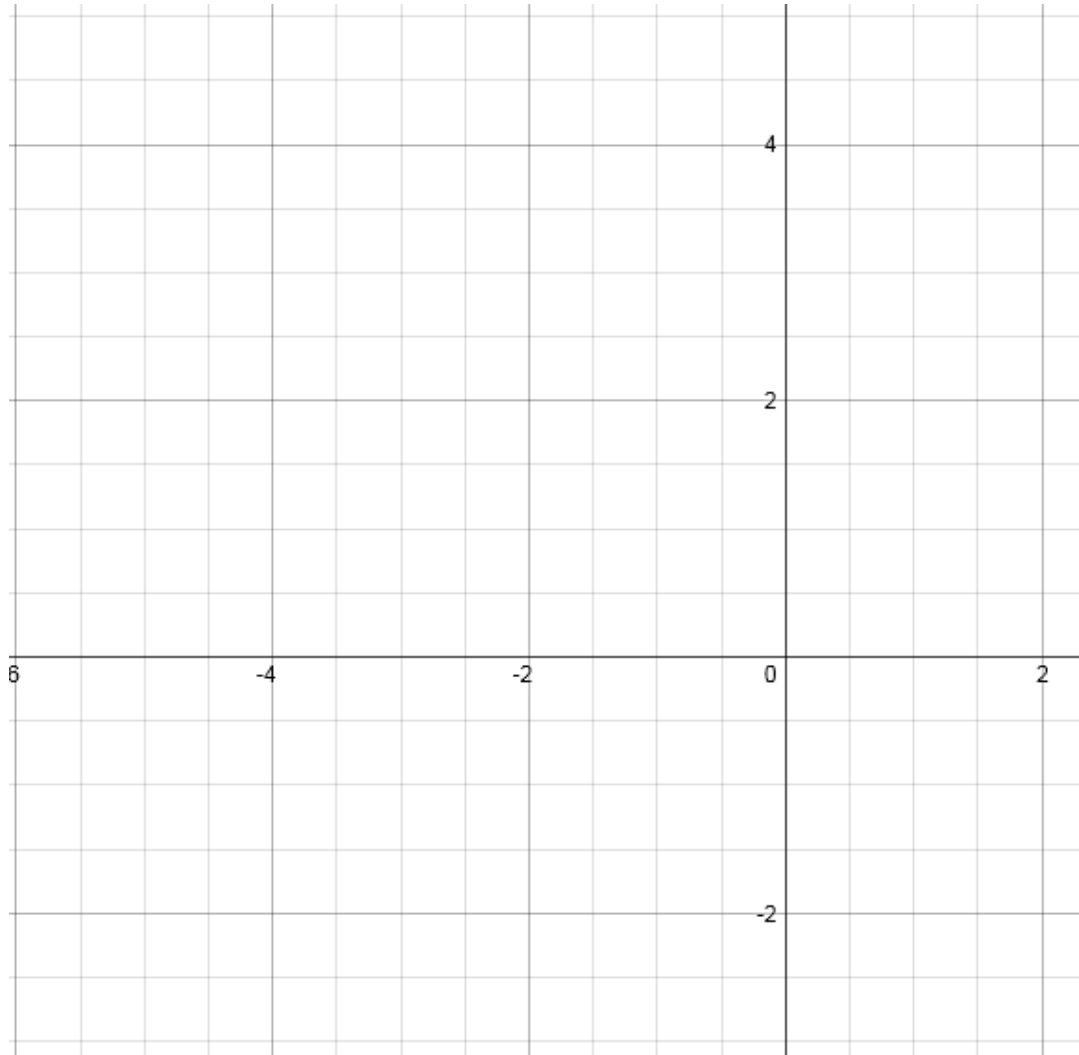


Completing the Square with Graphs

For each of the quadratics below. Draw the parabolas and hence find the roots and the minimum point.

a) Draw the graph of $x^2 + 4x + 3$ for $-4 \leq x \leq 0$



b) Solve $x^2 + 4x + 3 = 0$

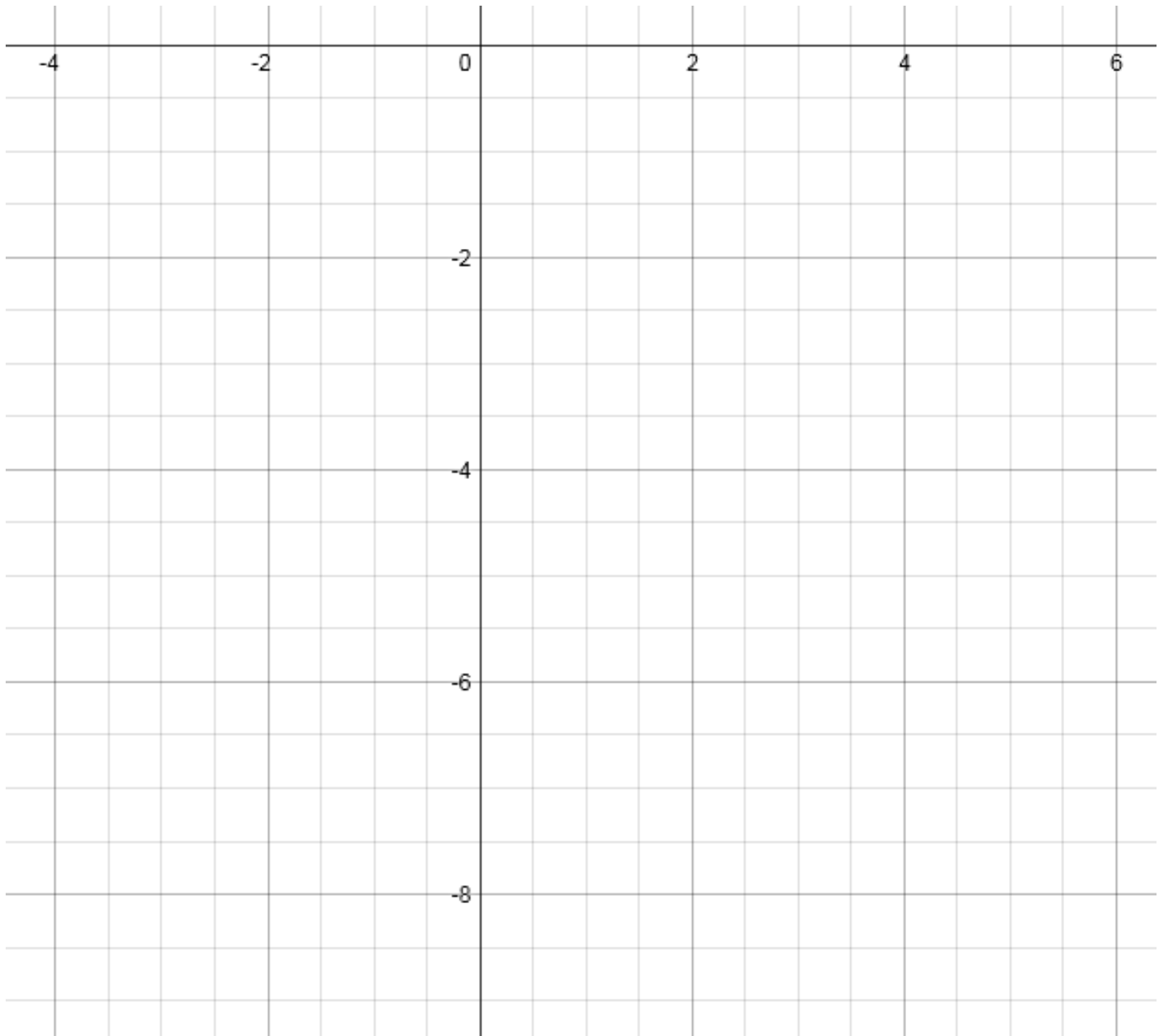
c) What is the minimum point on the curve: $y = x^2 + 4x + 3$



Completing the Square with Graphs

For each of the quadratics below. Draw the parabolas and hence find the roots and the minimum point.

a) Draw the graph of $x^2 - 2x - 8$ for $-2 \leq x \leq 4$



b) Solve $x^2 - 2x - 8 = 0$

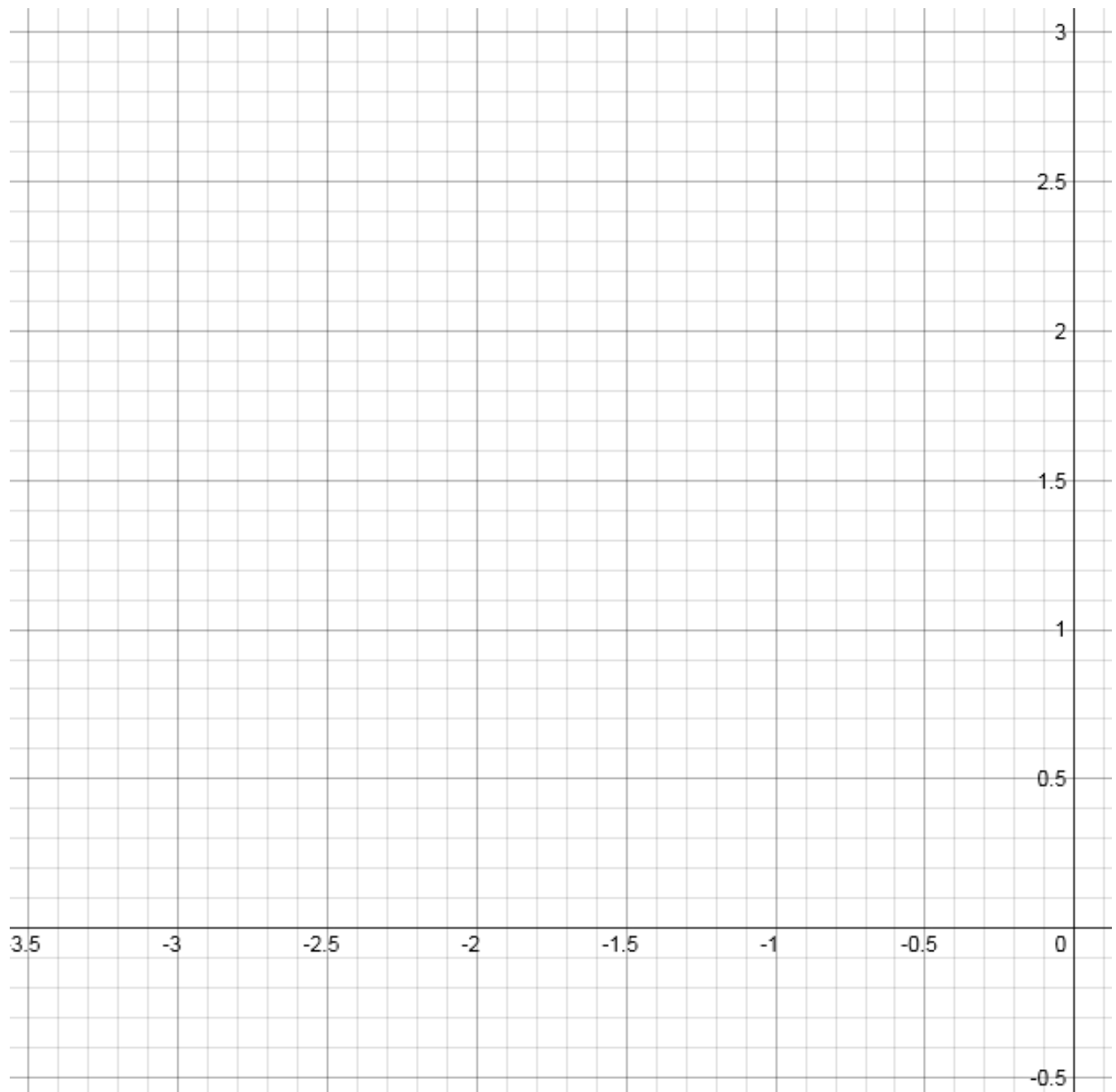
c) What is the minimum point on the curve: $y = x^2 - 2x - 8$



Completing the Square with Graphs

For each of the quadratics below. Draw the parabolas and hence find the roots and the minimum point.

a) Draw the graph of $2x^2 + 7x + 6$ for $-3 \leq x \leq -0.5$



b) Solve $2x^2 + 7x + 6 = 0$

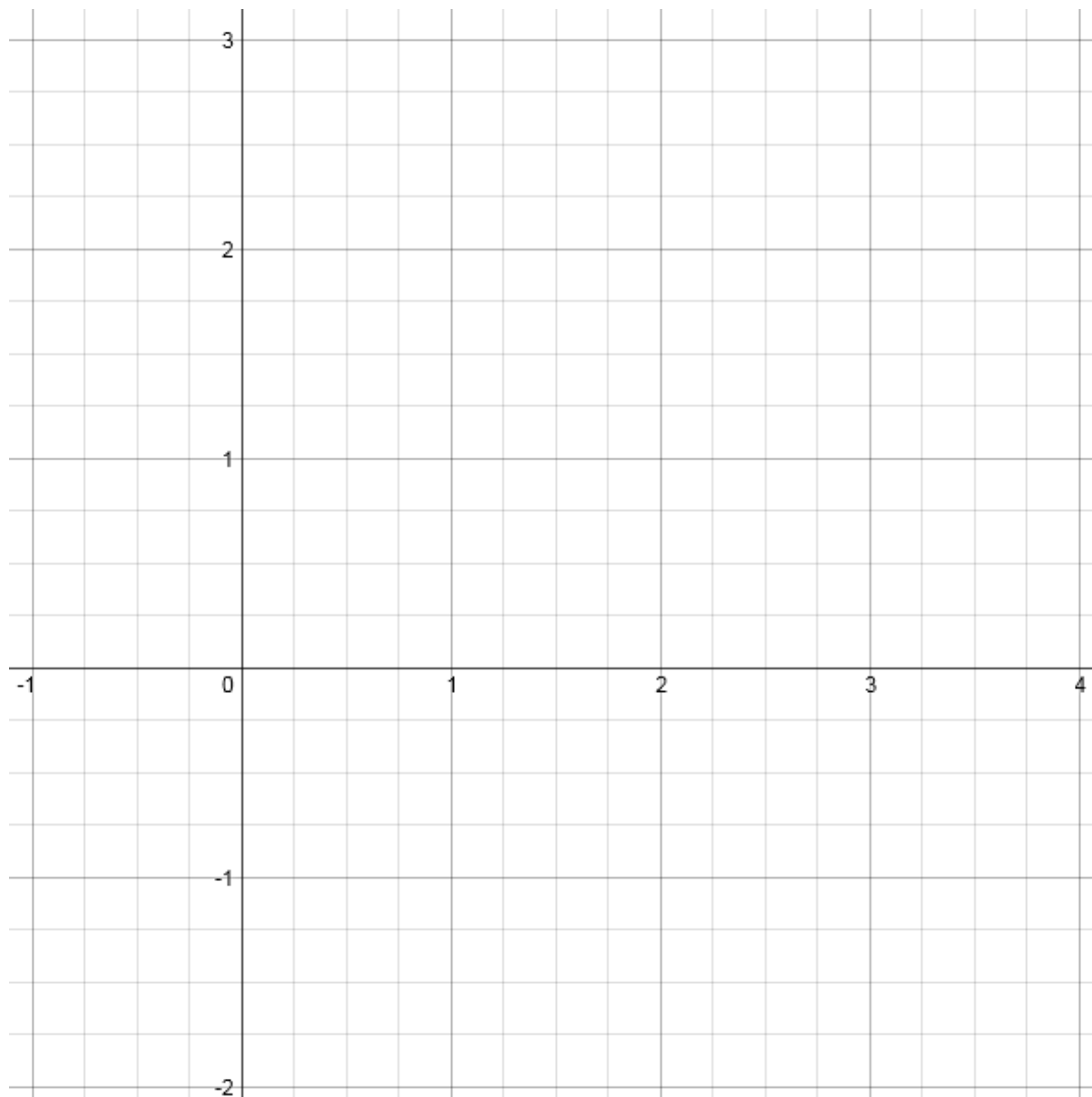
c) What is the minimum point on the curve: $y = 2x^2 + 7x + 6$



Completing the Square with Graphs

For each of the quadratics below. Draw the parabolas and hence find the roots and the minimum point.

a) Draw the graph of $2x^2 - 6x + 3$ for $0 \leq x \leq 3$



b) Complete the square to solve: $2x^2 - 6x + 3 = 0$

c) What is the minimum point on the curve: $y = 2x^2 - 6x + 3$

