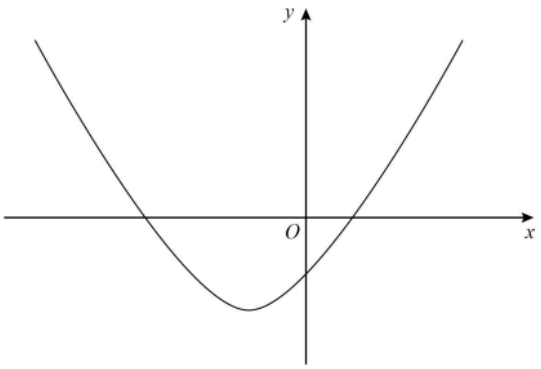
Q1. (2018)

27 Prove algebraically that $2.7\dot{5}$ converts to the fraction $\frac{124}{45}$

[3 marks]

Q2. (2019)

24 Here is a sketch of the curve $y = x^2 + 4x - 12$



Work out the values of x for which $x^2 + 4x - 12 < 0$

Give your answer as an inequality.

[3 marks]

Q3. (2020)

29 Solve $\frac{5}{4x+1} = \frac{2x}{x^2+3}$

Give your solutions to 3 significant figures.

You **must** show your working.

[5 marks]

Q4. (2022)

18 Solve $x^2 + 7x - 11 = 0$

Give your solutions as decimals.

[2 marks]