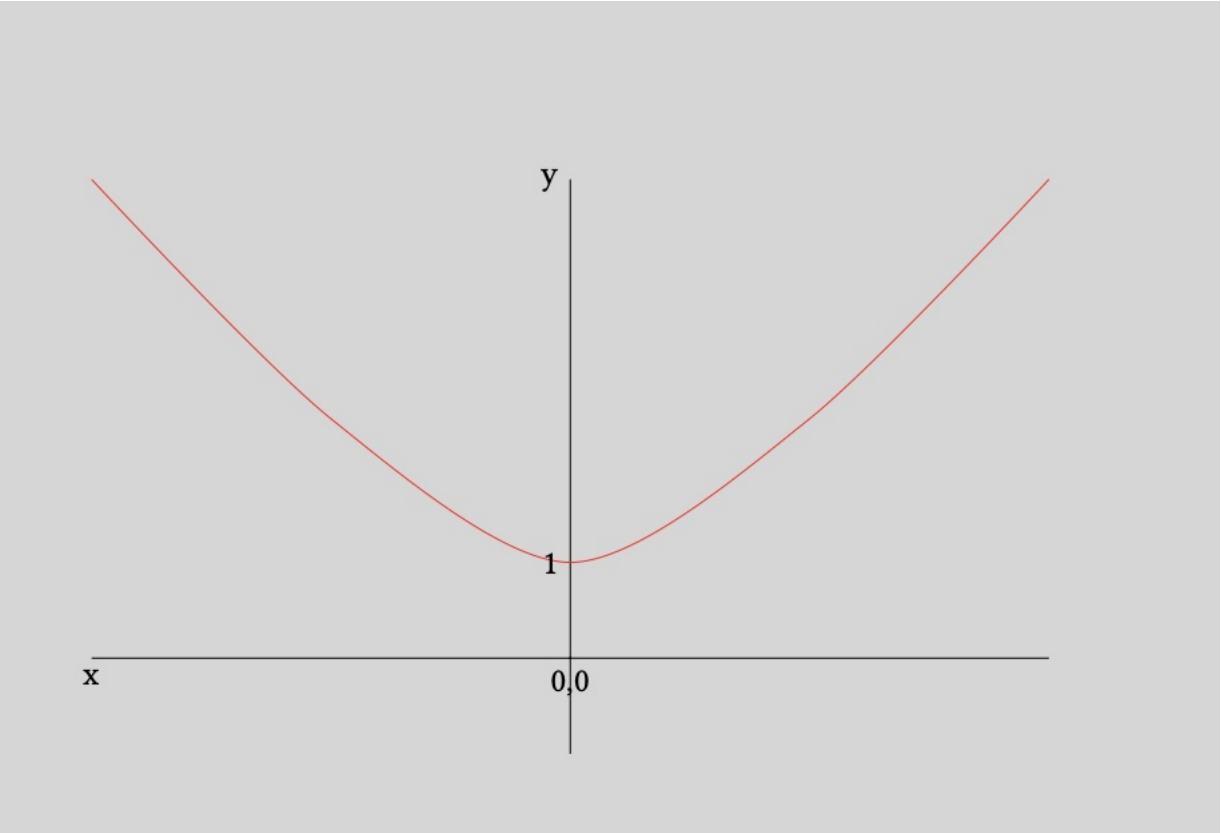
Question 1:

$$x = \frac{-b \pm \sqrt{(b^2 - 4ac)}}{2a}$$

Question 2:

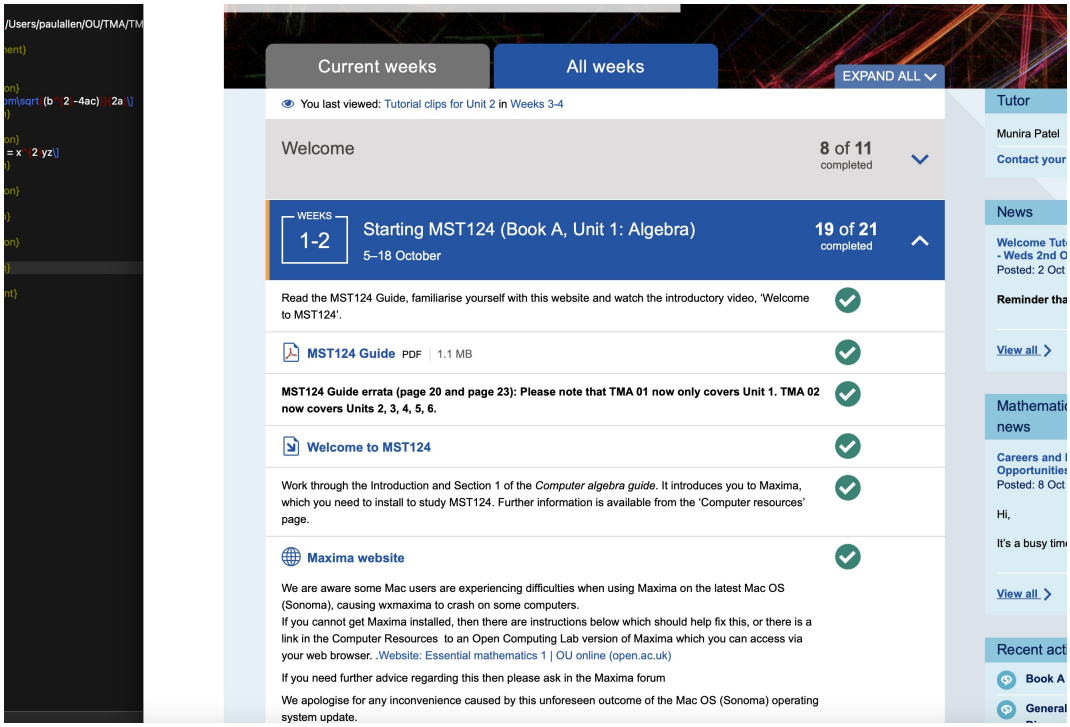
$$xy \times xz = x^2yz$$

Question 3:



Remember not to use computer generating software to produce graphs when asked to sketch. You may however use drawing software.

Question 4:



The study calender can be found under the 'resources' tab

Question 5: Solve the equation:

$$\frac{x}{5} - (1 + x) = \frac{2}{3}$$

Eliminate fractions by multiplying by the LCM, 15.

$$15\left[\frac{x}{5} - (1 + x)\right] = 15 \cdot \frac{2}{3}$$

Distribute the 15.

$$\frac{15x}{5} - 15(1 + x) = \frac{30}{3}$$

Simplify.

$$3x - 15 - 15x = 10$$

Combine like terms.

$$-12x - 15 = 10$$

Add 15 to both sides to isolate x.

$$-12x = 25$$

Divide by -12 to solve for x.

$$x = \frac{-25}{12}$$