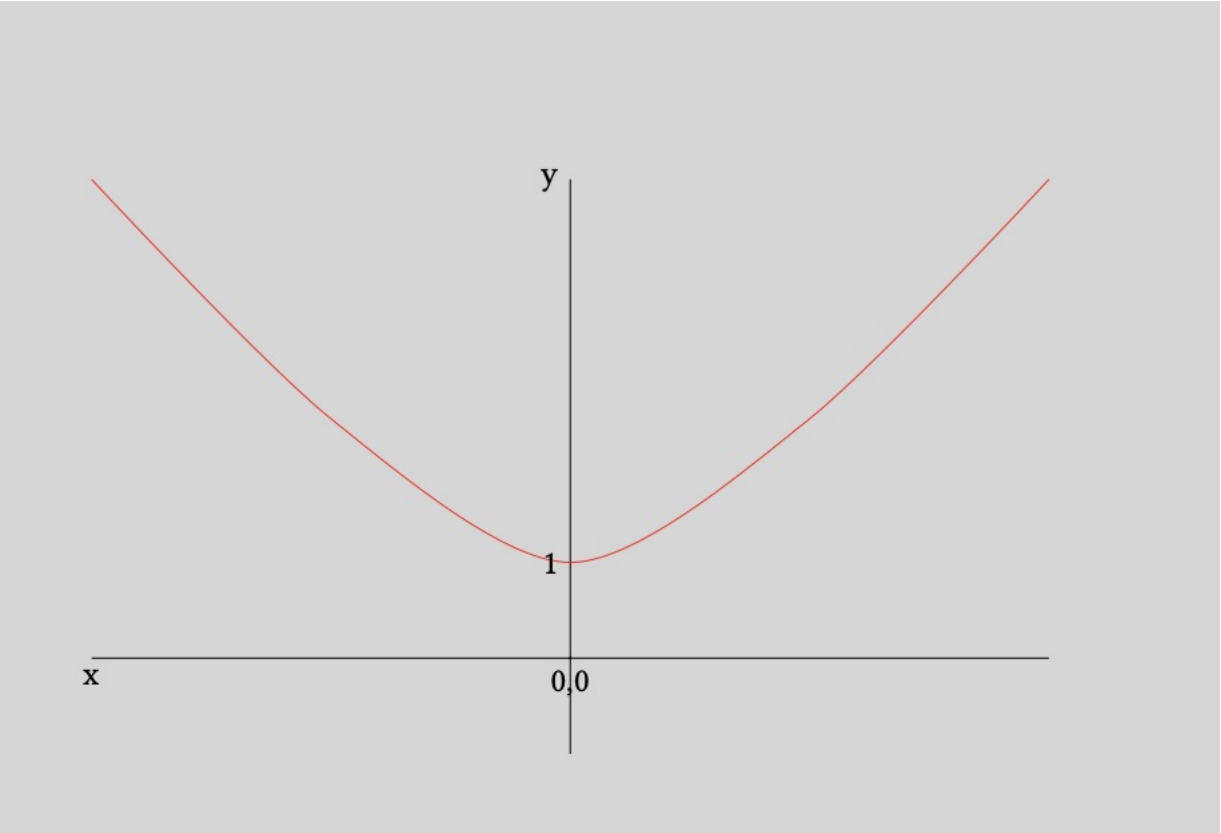
Question 1:

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

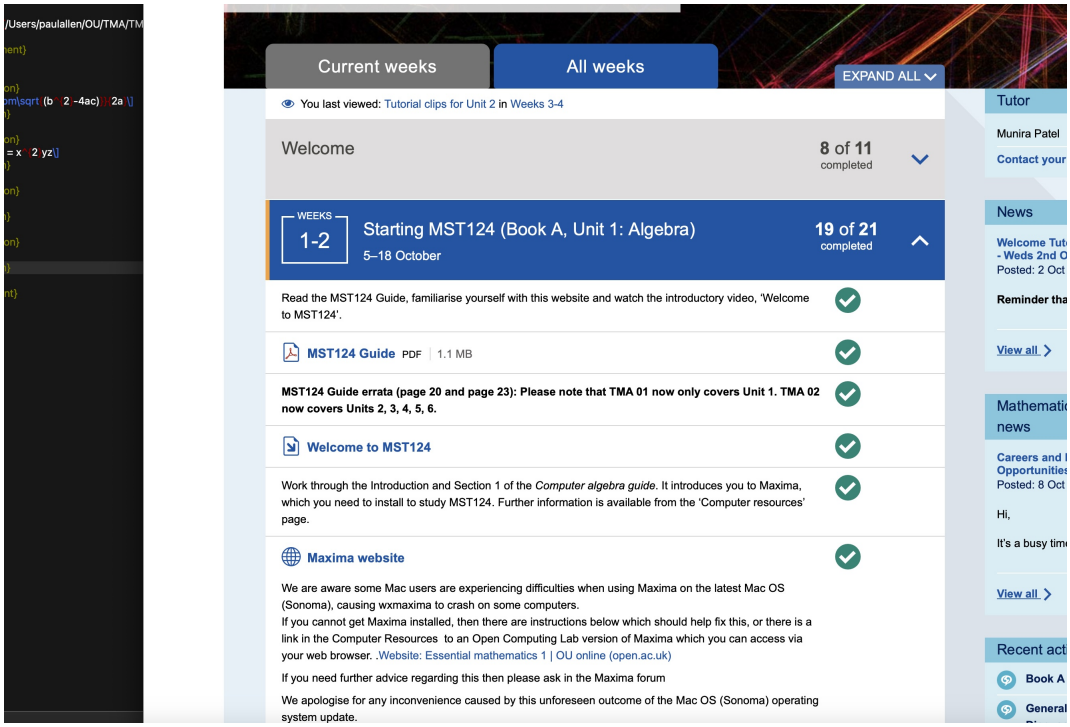
Question 2:

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

Question 3:



Question 4:


Current weeks
All weeks
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You last viewed: Tutorial clips for Unit 2 in Weeks 3-4
Welcome
8 of 11 completed
WEEKS 1-2
Starting MST124 (Book A, Unit 1: Algebra)
5–18 October
19 of 21 completed
Read the MST124 Guide, familiarise yourself with this website and watch the introductory video, 'Welcome to MST124'.
MST124 Guide PDF | 1.1 MB
MST124 Guide errata (page 20 and page 23): Please note that TMA 01 now only covers Unit 1. TMA 02 now covers Units 2, 3, 4, 5, 6.
Welcome to MST124
Work through the Introduction and Section 1 of the Computer algebra guide. It introduces you to Maxima, which you need to install to study MST124. Further information is available from the 'Computer resources' page.
Maxima website
We are aware some Mac users are experiencing difficulties when using Maxima on the latest Mac OS (Sonoma), causing wxmaxima to crash on some computers.
If you cannot get Maxima installed, then there are instructions below which should help fix this, or there is a link in the Computer Resources to an Open Computing Lab version of Maxima which you can access via your web browser. .Website: Essential mathematics 1 | OU online (open.ac.uk)
If you need further advice regarding this then please ask in the Maxima forum
We apologise for any inconvenience caused by this unforeseen outcome of the Mac OS (Sonoma) operating system update.
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General

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.

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