



1.

Solve the following for x

$$x^2 + x + 1 = 2x + 7$$



2.

Graph

$$y = x^2 + x + 1 \text{ and } y = 2x + 7$$

on the same graph.

Compare with your solution above.



3.

Here are two definitions and two calculations

$$a = 3$$

$$a + 1 = 4$$

$$a = 5$$

$$a + 1 = 6$$

Enter both of these so that they are both working at the sametime in this notebook.



4.

Simplify this matrix

$$\begin{pmatrix} \cos(\square) & e^0 \\ i^2 & \sin\left(\frac{\square}{2}\right) \end{pmatrix}$$