

Question 2

6 Marks (2 + 2 + 2)

Find y'' for following equations:

1. $x^2 + 3xy + y^2 = 2$

2. $\cos(xy) = 1$

3. $y = \tan^3 x^2$

Answer:

Question 3

4 Marks

Show that $f(x) = \sqrt{1+x}$ satisfies the conditions of the **Mean Value Theorem** on $[0, 8]$. Then find the numbers c that satisfies the conclusion of the theorem.

Answer:

