**Q. 1 (a) Discuss the continuity of the function (𝑥)= at x=a.**

f(x) =

at x = a

f(a) = **Q. 1 (b) Evaluate .**

Let = t ⇒ x = t2 so that dx = 2t dt

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Q **2 (a) If prove that, .**

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**Q. 2 (b) Multiply 3 + 4i by 7 – 3i.**

= (3 + 4i) (7 – 3i)

= 21 – 9i +28i – 12i2

**Q. 3 (a) If where, v is the region bounded by the surfaces x = 0, y = 0, x = 2, y = 4, z = x2, z = 2.**

 =

**Q. 3 (b)**

**Evaluate, using the properties of determinant.**

R3→

R1→

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