**Q.1 (a) Evaluate lim𝑥→0.**

We need to find thelimit of thegiven equation when x = > 0

Now let us substitute the value of x as 0, we get an indeterminate form of 0/0.

Let us rationalizing the given equation, we get

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**Q.2 (a) Evaluate∫(3t+t2) sin(2t) dt.**

**Q. 2 (b) Solve: {2xy.cosx2-2xy+1}dx + {sinx2-x2+3}dy = 0**

**Step1.**Verify the equation is exact or not.

M = 2xy.cosx2-2xy+1

N = sinx2-x2+

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

= (3 + 4i) (7 – 3i)

= 21 –