(B)

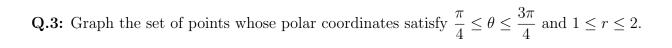
| ハルヘチト・カロー エンソー | |
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| | |
| Math 201-133 | |

Quiz 1

Q.1: Sketch the graph of the parametric equations $x = t^2 - 1$, y = 5 - 3t and mark the direction in which the curve is traced for $-3 \le t \le 3$. Find equation of tangent line to the curve at t = 1. Also eliminate the parameter t to find corresponding cartesian equation.

| \boldsymbol{x} | y |
|------------------|----------|
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| | |
| | |
| | <i>x</i> |

Q.2: Find the exact length of the curve $x = 3 + 6t^2$, $y = 1 + 4t^3$ for $0 \le t \le 1$



Q.4: Find the corresponding cartesian equation for the polar equation $r^2 \cos(2\theta) = 1$.

Q.5: Find the corresponding polar equation for the cartesian equation $(x+3)^2 + (y-1)^2 = 9$.