ANSWERS TO SEMESTER ONE EXAMINATION JUNE 2005 (MARCH 2005 INTAKE)

1	$160n^4+52n^3-8n^2-2n$
2	i) SHOW ; (ii) 2 ; (iii) 39 ; 88
3	i) $P=c-a-b$ and $Q=(c-a)(c-b)$ ii) Asymptotes : $y=x+c-a-b$ and $x=c$. iii) 2 Critical Points. Minimum point at $x=c+\sqrt{(c-a)(c-b)}$ and Maximum point at $x=c-\sqrt{(c-a)(c-b)}$ The curve crosses the axes at $\left(0,\frac{-ab}{c}\right)$; $(a,0)$ and $(b,0)$