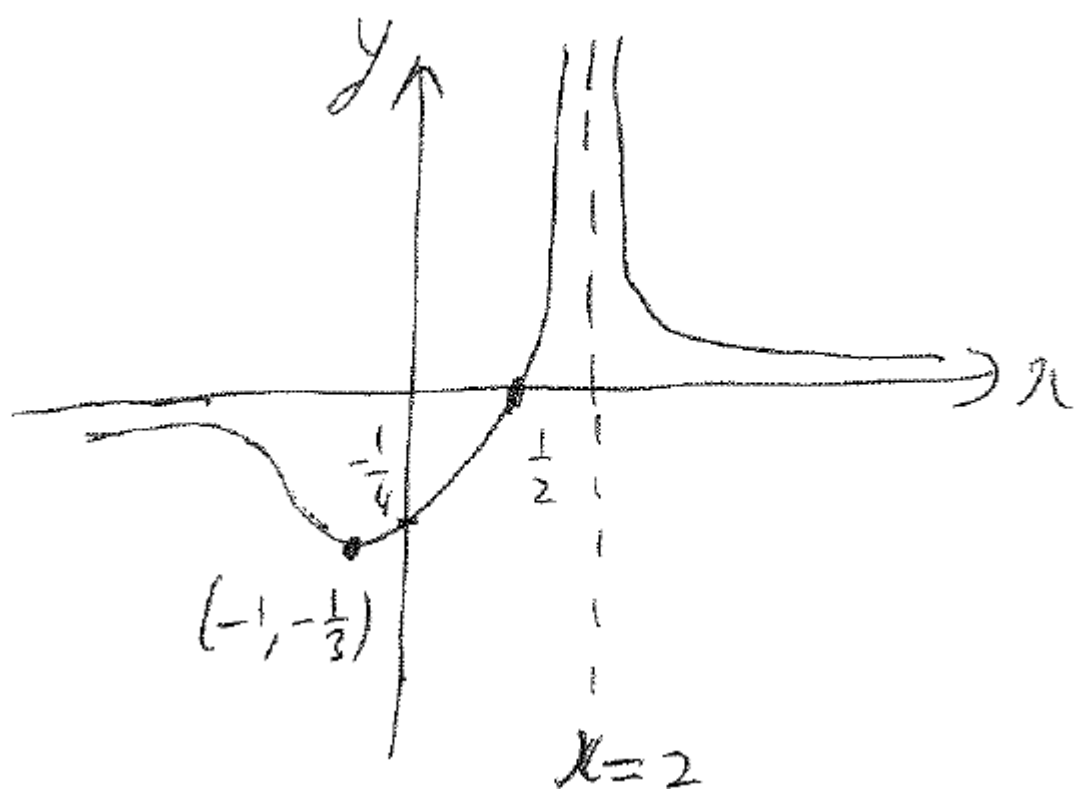


ANSWERS TO SEMESTER ONE EXAMINATION JUNE 2010 (JAN 2010 INTAKE)

1	$-8n^4 - 8n^3 + n$
2	$\text{When } a \neq b, \quad \frac{x}{z} = s \frac{\frac{c-b}{b-a}}{\frac{a-c}{b-a}}$ $\text{When } a \neq c, \quad \frac{x}{z} = s \frac{\frac{b-c}{c-a}}{\frac{a-b}{c-a}}$
3	Prove
4	<p>(i) $y = 0, x = 2$</p> <p>(ii) Minimum</p> <p>(iii)</p> 
5	<p>(i) $8a^2d - 4abc + b^3 u^3 + 36a^2d - 12abc u^2 + 54a^2d - 9abc u + 3b^3 + 27a^2d = 0$</p> <p>(ii) $A = \frac{5}{12}$</p>