ANSWERS TO SEMESTER ONE EXAMINATION JUNE 2006 (MARCH 2006 INTAKE)

1	PROVE
2	a) $\frac{1}{x} - \frac{2}{x+1} + \frac{1}{x+2}$; (b) PROVE
3	i) SHOW; (ii) SHOW; (iii) 32
4	Asymptotes: $y = x - 1$ and $x = -1$.
	$1 \cdot \sqrt{2} \cdot 2$

Minimum point $\left(-1+\sqrt{6}\right., -2+2\sqrt{6}\right)$ and Maximum point $\left(-1-\sqrt{6}\right., -2-2\sqrt{6}\right)$ The curve does not cross any of the axes.

