RIGOUR

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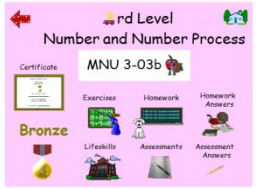
Numeracy for Learning, Life and Work



April Higher Maths Calendar

#abitofmathseveryday

1 $(-12, -1)$	2 $4x^2 - 12x + 10$	3 $\frac{5\pi}{4}$	4 No since $m_{KL} \neq m_{LM}$	5 $(x-2)(x+7)(x-5)$	6 $y = -2x - 4$
7 $\frac{\pi}{3}$, $\frac{4\pi}{3}$	8 Min TP @ (0, 0) Max TP @ (2, 8)	9 $y = 2x^3 - x^2 + 6$	10 43·0°	11 $\frac{1}{12}(4x+9)^3 + c$	12 $U_{n+1} = \frac{1}{2}U_n + 9$
13 a = 7, b = 3, c = 5	14 C(3, 0) r = 7	15 $y = \frac{2}{9}x(x-6)$	16 $k^{-1}(x) = 4x - 1$	17 $\frac{3+\sqrt{21}}{8}$	18 $-\frac{3}{8}$
19 $\frac{2sinxcosx}{\frac{sinx}{cosx}} = \frac{2sinxcos^2x}{sinx} = 2cos^2x$	20 41·4°, 180°, 318·6°	21 $a = \frac{1}{4}$	22 Since 10 = 10	23 $-2 < x < 6$	24 $y = 4(x-1)^2 + 5$
25 $\frac{81}{4}$ $units^2$	26 (-1, 1), (2, 4), (4, 6)	27 $2\cos(x + 300)°$	28 (7, -7)	29 $c \leq 2$, $c \geq 10$	30 x = -6, x = 2