RIGOUR

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Numeracy for Learning, Life and Work

June Higher Maths Calendar

#abitofmathseveryday

1 13 units					
2 $30(3x - 1)^9$	3 $-2 < x < 6$	4 31	5 $(x+1)(x-3)(x+2)$	6 $k = -4$	7 $y = -\frac{1}{2}x - 1$
8 $y = 3x - 20$	9 $a = -5$ $b = 2$ $c = -6$	10 Since $b^2 - 4ac = -12$ there are no real roots so line does not intersect the parabola	11 $\overrightarrow{AB} : \overrightarrow{BC} = 3 : 7$ and B is a common point	12 $x \leq \frac{2}{5}$	13 Max TP @ (-3, 34), Min TP @ (1, 2)
14 $y = -2x + 3$	15 $\frac{3}{5}$	16 $y = -(x+1)^2(x-4)$	17 $m = -\frac{1}{\sqrt{3}}$	18 Limit exists since $-1 < 0{\cdot}3 < 1$ Limit = -20	19 $y = \log_9 x$
20 $f^{-1}(x) = \sqrt{x-5}$	21 $\frac{8}{9}$	22 $y = -7x - 18$	23 $f(x) = 2x^3 + x - 27$	24 C(-2, 0) radius = 49	25 $y = 3^x$
26 $-5(x-1)^2 + 8$	27 $\sqrt{2}\cos(x - 315)°$	28 $x = \frac{1}{2}$	29 $x = \frac{\pi}{2}$	30 $\frac{7}{4}$ units^2	