RIGOUR

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Numeracy for Learning, Life and Work


# February Higher Maths Calendar

#abitofmathseveryday


| | | | | | |
|---|---|---|---|---|---|
| 1 $C(7, 1)$ $r = 9$ | 2 $x = 7$ | 3 $y = 4$ | 4 $-9$ | 5 $a = 3$ $b = 2$ $c = -7$ | 6 $\overrightarrow{EF} : \overrightarrow{FG} = 3 : 4$ |
| 7 $(x-1)(x+5)(x+9)$ | 8 $f^{-1}(x) = \frac{x+1}{6}$ | 9 $y = 2(x-2)^2 - 1$ | 10 $\pi, \frac{11\pi}{6}, 2\pi$ | 11 $\sqrt{2}\sin(x+45)°$ | 12 $4sin^3xcosx$ |
| 13 $1$ | 14 $\frac{12}{13}$ | 15 $(2, -1)$ | 16 $y = x^3 + x + 6$ | 17 $(-3, 3)$ | 18 Max TP @ (0, 15), Min TP @ (2, 3) |
| 19 $3$ | 20 $y = 7^x$ | 21 $f'(x) = \frac{3}{2}x^{\frac{1}{2}} - x^{-\frac{3}{2}}$ | 22 $135°$ | 23 $a = 3$ $b = 1$ $k = 10$ | 24 $x \neq -3, 4$ |
| 25 $y = -3x + 1$ | 26 $k \leq \frac{9}{8}$ | 27 $36\ units^2$ | 28 $43°$ | | |