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Numeracy for Learning, Life and Work

3rd Level
Number and Number Process
MNU 3-03b

Certificate
Bronze
Lifefulks
Exercises
Homework
Homework Answers
Assessments
Assessment Answers

November Higher Maths Calendar

#abitofmathseveryday



1

$$h^{-1}(x) = \sqrt[3]{x + 8}$$

2 Since only one point of contact, line is tangent (or since $b^2 - 4ac = 0$) Point of contact is (3, 9)	3 $C(0, 4)$ radius = 11	4 $-2(x - 3)^2 + 25$	5 $y = \log_5 x$	6 $y = -4x - 12$	7 $x = \frac{\pi}{3}, \frac{\pi}{2}, \frac{3\pi}{2}, \frac{5\pi}{3}$
8 $y = -3x + 19$	9 Limit exists since $-1 < 0.2 < 1$ Limit = -50	10 $-\frac{5}{8}$	11 $f(x) = x^3 + 8x - 16$	12 $2\cos(x - 330)^\circ$	13 $40(5x - 2)^7$
14 $(x + 1)(x - 5)(x + 4)$	15 $x < -6$ and $x > 3$	16 $k = 6$	17 $x = \frac{3}{2}$	18 10 units	19 $u_7 = 10$
20 $y = 5x - 26$	21 $\vec{RS} : \vec{ST} = 3 : 4$ and S is a common point	22 $y = -\frac{1}{4}x + 2$	23 $x \leq \frac{9}{4}$	24 Max TP @ (-2, 27), Min TP @ (2, -5)	25 $-\frac{25}{7}$
26 $m = -1$	27 $a = 6$ $b = 8$ $c = 5$	28 $y = 2^x$	29 $y = -(x + 3)^2(x - 5)$	30 $\frac{81}{4} \text{ units}^2$	