## MTH 1002 Practice Test A Answers 1. a) Neither b) Odd Similar questions: Notes 2, p.1 Practical 2, q.1 Coursework, q.1 2. $\lim_{u\to 3} \frac{u^2 + u - 12}{u^2 - 9} = \frac{7}{6}$

$$\lim_{x\to 0} \frac{e^{x} + e^{-x} - 2}{x^{2}} = 1$$

$$\lim_{x\to 0} \frac{e^{x} + e^{-x} - 2}{x^{2}} = 1$$
Sinilar questions: Practical 4, qq. 1, 2 and 6
Notes 4, pp. 1-2

Notes 4, pp. 1-2 Coursework, q.6

4. -64

Similar questions: Practical 3, qq. 4+5

5.  $\frac{dy}{dt} = t^5 e^{-at} \sin \omega t \left( \frac{5}{t} - a + \omega \cot \omega t \right)$ 

Similar questions: Notes 5, p.7

Practical 5, q.4

6. x = 0 and x = 6/7Sinilar questions: Notes 6, p.9

Practical 6, q.1

7. The absolute maximum is 3 and minimum is - ). the absolute

Similar questions: Practical 6, qq. 2+8 Notes 6, p. 8