

- $C(0, 0) ; R = \sqrt{6y}$
- $C(0, 6) ; R = 9$
- $C(0, 3) ; R = 3$
- $C = 0 ; R = 3$

12) PARTIALD Given the function $f(x, y) = 5x + \ln y$, determine the second derivative $f_{xy}(0, 0)$

- 5
- $-\infty$
- $\frac{1}{5}$
- 0

13) LIMITS Calculate the following limit

$$\lim_{x \rightarrow -\infty} \log_{10} e^x$$

- $-\infty$
- $+\infty$
- it's not defined
- 0

14) SERIES To which function the following series corresponds

$$f(x) = \sum_{k=0}^{\infty} \frac{(2x)^{2k}}{(2k)!}$$

- $f(x) = \cos x$
- $f(x) = \sin x$
- $f(x) = \cos 2x$
- $f(x) = e^{2x}$

15) PARTIALD Determine $\vec{\nabla} f(-1, 1)$ of $f(x, y) = x^2y$

Preview from Notesale.co.uk
Page 4 of 9