

MATHEMATICS DEPARTMENT
MATH 1411 -Quiz 1-
First Semester 2021/2022

Name (Arabic) [REDACTED]

Number... [REDACTED]

Q1) The domain of the function $h(x) = \frac{1}{x^2+4}$ is

1. $(-2, 2)$
2. $(0, \infty)$
3. $(-\infty, -2) \cup (2, \infty)$
4. $(-\infty, \infty)$

Q2) The graph of the function $y = \cos(x - \frac{\pi}{2})$ is symmetric about

1. x- axis
2. origin
3. y- axis
4. none

Q3) $\lim_{x \rightarrow 0} \frac{\tan 3x}{x}$

1. $\frac{1}{3}$
2. ∞
3. 0
4. 3

Q4) The graph of $f(x) = \frac{x^2}{x+1}$ has

1. an oblique asymptote $y = x - 1$
2. a vertical asymptote $x = 2$
3. horizontal asymptote at $y = \frac{1}{2}$