

Name :

Class :

Quiz (2)

Choose the correct answer :

1) The opposite figure represents two curves

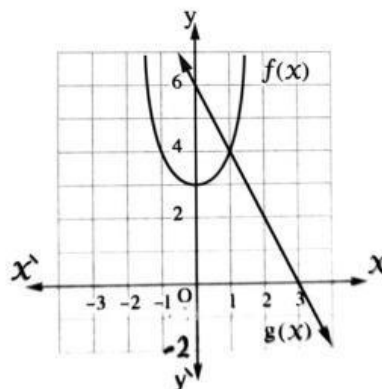
$f(x)$ and $g(x)$, then $(g \circ f)(1) = \dots\dots\dots$

(a) - 2

(b) 2

(c) 4

(d) 5



2) From the following functions , the even functions is $f : f(x) = \dots\dots\dots$

(a) $\sin x$

(b) $\sin 30^\circ$

(c) $x \cos x$

(d) $x^2 + \tan x$

3) Range of the function $f : f(x) = \frac{|x-2|}{x-2}$ is $\dots\dots\dots$

(a) $]2, \infty[$

(b) $] - \infty, 2[$

(c) $\mathbb{R} - \{2\}$

(d) $\{-1, 1\}$

4) All the following relations represent function y in terms of x except $\dots\dots\dots$

(a) $y = 3x + 1$

(b) $y = x^2 - 4$

(c) $x = y^2 - 2$

(d) $y = \sin x$

5) If $f(x) = x^3$, then the image of the curve of f by reflection in x - axis and translation 3 units in the direction of $\overrightarrow{OX}$ and two units in the direction of $\overrightarrow{OY}$ is $\dots\dots\dots$

(a) $-(x-3)^3 - 2$

(b) $-(x+3)^3 + 2$

(c) $-(x+3)^3 - 2$

(d) $-[(x+3)^3 + 2]$

6) $\lim_{x \rightarrow 1} \frac{x^2 - k^2}{x + 2} = -1$, then $k = \dots\dots\dots$

- (a) 2 (b) -2 (c) 4 (d) ± 2

7) $\lim_{x \rightarrow 16} \frac{\sqrt{x} - 1}{x - 16} = \dots\dots\dots$

- (a) zero (b) $\frac{1}{2}$ (c) 1 (d) does not exist

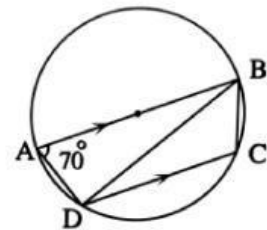
8) $\lim_{x \rightarrow \infty} \left(\frac{3}{5}\right)^{\frac{1}{x}} = \dots\dots\dots$

- (a) 1 (b) -1 (c) $\frac{3}{5}$ (d) ∞

9) In the opposite figure :

If $BC = 10$ cm , then the perimeter of $\triangle BDC = \dots\dots\dots$ cm

- (a) 60 (b) 62
(c) 64 (d) 67



10) In $\triangle ABC$, $m(\angle A) : m(\angle B) : m(\angle C) = 3 : 4 : 3$, If $a = 5$ cm , then the Circumference of the circle passing through the vertices of $\triangle ABC = \dots\dots\dots$ cm

- (a) 17 (b) 18 (c) 19 (d) 15