

Name :

Class :

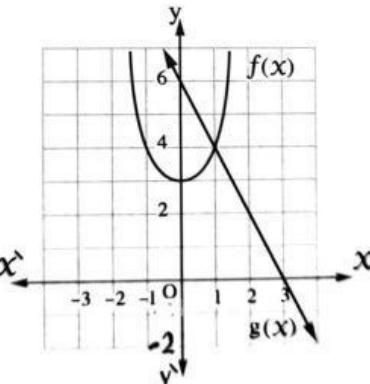
Quiz (2)**Choose the correct answer :****1)** The opposite figure represents two curves $f(x)$ and $g(x)$, then $(g \circ f)(1) = \dots$

(a) - 2

(b) 2

(c) 4

(d) 5

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

(a) 2 (b) -2 (c) 4 (d) ± 2

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

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

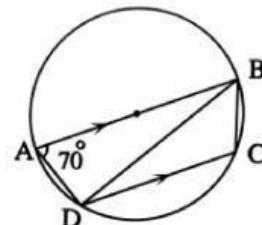
8) $\lim_{x \rightarrow \infty} \left(\frac{3}{5}\right)^x = \dots$

(a) 1 (b) -1 (c) $\frac{3}{5}$ (d) ∞

9) In the opposite figure :

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

(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 $a = 5 \text{ cm}$, then the

Circumference of the circle passing through the vertices of $\triangle ABC =$

$\dots \text{ cm}$

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