

Derivative - Class XII

Related Questions with Solutions

Questions

Question: 01

If f and g are differentiable functions such that $g'(a) = 2$ and $g(a) = b$ and if $f \circ g$ is an identity function then $f'(b)$ has the value equal to:

Solutions

Solution: 01

$$f[g(x)] = x; \quad f'[g(x)] \cdot g'[x] = 1; \quad f'[g(a)] \cdot g'[a] = 1; \quad f'[b] \cdot 2 = 1$$

Hence, $f'[b] = 1/2$

Correct Options

Answer:01

Correct Answer: 0.49-0.51