

Moderate

Assistant Engineer (Electrical), Class II

2025

Building Department

?

A

$x(t) = t - 2t$

B

$x(t) = \sin(t)$

C

$x(t) = \sin(2t) \cos(2t) - 2t$

Correct

D

$x(t) = (\cos(t))$

Correct Answer: C

Full Detailed Explanation

$$\frac{d}{dt} \log(\cos t) = -\tan t$$
$$\sin(2t) + \cos(2t) = 1$$