

Easy

Deputy Executive Engineer (Electricity) 2026

Ports Authority of Gujarat / Assistant Engineer (Electrical)

$$\left(\frac{1}{\cos^2 \theta} \right)$$

- A

$\frac{1}{\cos^2 \theta}$
- B

$\frac{1}{\sin^2 \theta}$
- C

$\frac{1}{\cos^2 \theta} + \frac{1}{\sin^2 \theta}$ Correct
- D

$\frac{1}{\cos^2 \theta} - \frac{1}{\sin^2 \theta}$

Correct Answer: C

Full Detailed Explanation

$$\frac{1}{\cos^2 \theta} = \sec^2 \theta$$

$$\sec^2 \theta = \frac{1}{\cos^2 \theta}$$

$$\therefore \sec^2 \theta = \frac{1}{\cos^2 \theta} = \frac{1}{\cos^2 \theta} = \frac{1}{\cos^2 \theta}$$

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$$\therefore$$