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- 2014** **7** How many solutions of the equation $(\sin x - 1)(\tan x + 2) = 0$ lie between 0 and 2π ? **1**
(A) 1 (B) 2 (C) 3 (D) 4

B

$$(\sin x - 1)(\tan x + 2) = 0$$

$$\sin x - 1 = 0$$

$$\sin x = 1$$

$$x = \frac{\pi}{2}$$

$$\tan x + 2 = 0$$

$\tan x = -2$ has two solutions.

But $x = \frac{\pi}{2}$ is not solution of $\tan x + 2 = 0$, as $\tan \frac{\pi}{2}$ is undefined.

\therefore there are only 2 solutions.

State Mean:
0.25

* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by BOSTES.