Related Questions with Solutions

Questions

Quetion: 01

Which of the following is greatest?
A. tan1
B. tan4
C. tan7
D. tan10

Solutions

Solution: 01

$\because \tan\theta = \tan(\theta - n\pi), n \in I$

$\therefore \tan 4 = \tan(4 - \pi)$

$\therefore \tan 7 = \tan(7 - 2\pi)$

$\therefore \tan 10 = \tan(10 - 3\pi)$
now $0 < 10 - 3\pi < 7 - 2\pi < 4 - \pi < 1$

$\tan 0 < \tan(10 - 3\pi) < \tan(7 - 2\pi) < \tan(4 - \pi) < \tan 1$

$0 < \tan 10 < \tan 7 < \tan 4 < \tan 1$

Correct Options

Answer:01
Correct Options: A