

Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date:

Name:

ID No.....

Write the correct answer for each of the following:

i. If $\tan A = \frac{3}{4}$, then the value of $\sec A$ is

(a) $\frac{5}{3}$

(b) $\frac{5}{4}$

(c) $\frac{4}{3}$

(d) $\frac{4}{5}$

Sol.

ii. The value of the expression $\frac{\csc(58^\circ + \theta) - \sec(32^\circ - \theta)}{\tan 45^\circ + \tan(45^\circ + \theta) - \cot(45^\circ - \theta)}$ is

(a) 1

(b) $\frac{1}{2}$

(c) 0

(d) 2

Sol.

iii. The value of $\frac{\tan^2 60^\circ - \sin^2 30^\circ}{\tan^2 45^\circ + \cos^2 30^\circ}$ is

(a) $\frac{7}{11}$

(b) $\frac{11}{13}$

(c) $\frac{13}{11}$

(d) $\frac{11}{7}$

Sol.
