

Doon Public School

Sector-21, Panchkula

Assignment – 3

Subject: Mathematics

Class: X

Date: 16 -10 -2018

Answer the following questions

1. Find the value of $3\sin x - 4\cos^3 x$, if $\sin x = \frac{1}{2}$.
2. If $\sec \theta = 2$ then
Evaluate $\frac{4\cos \theta - \sqrt{3}\sin \theta}{\tan \theta - \cot \theta}$
3. If $\sin \theta = \sqrt{3}\cos \theta$, Find the value of $\frac{\tan \theta - 1}{\tan \theta + 1}$
4. Find the value of $4 \operatorname{cosec}^2 60^\circ - 16 \tan^2 30^\circ$
5. Find the value of $\sin 30^\circ \cos 60^\circ - \tan 45^\circ \sec 30^\circ \operatorname{cosec} 60^\circ + 2 \cot 45^\circ$