INSTRUCTIONS: 1.The parents to ensure that their ward watches the video instructions for this assignment attentively by clicking on the given link: https://youtu.be/ndDzbSQr4yU revise the lesson given in the book and then work on the assignment. The completed assignment is to be submitted to this Email- jpathakproject@gmail.com .
2. Students who have already completed this assignment need not to send it again. Exercise

1. Find the domain of the following functions.
i. $\quad \cos ^{-1}(5 x-2)$
ii. $\quad \sec ^{-1}(3-2 x)$
2. Find the principal values of each of the following:
i. $\sin ^{-1}\left(-\frac{1}{2}\right)$
ii. $\sec ^{-1}(-2)$
iii. $\tan ^{-1}(1)$
iv. $\sec ^{-1}(2)$
v. $\operatorname{cosec}^{-1}(2)$
vi. $\operatorname{cosec}^{-1}\left(-\frac{2}{\sqrt{3}}\right)$
3. .Evaluate :
i. $\sin ^{-1}\left(\frac{\sqrt{3}}{2}\right)+\tan ^{-1}(\sqrt{3})$
ii. $\cos ^{-1}\left(\frac{1}{2}\right)+2 \sin ^{-1}\left(\frac{1}{2}\right)$
iii. $\cos ^{-1}\left(-\frac{1}{2}\right)+\tan ^{-1}(-\sqrt{3})-\operatorname{cosec}^{-1}(2)$
4. Draw the graphs of the inverse trignometric functions.
