**15/06/2020** **JESUS AND MARY SCHOOL AND COLLEGE MODULE-7**

**CLASS-12 (MATHS)**

**CHAPTER NAME– INVERSE TRIGNOMETRIC FUNCTIONS**

**Note: Please refer to the video prepared for this chapter.**

**WORKSHEET-1**

1. $Write down the value of sec^{-1}\left(\frac{-2}{\sqrt{3}}\right).$
2. $Write down the value of cos^{-1}\left(-\frac{1}{2}\right).$
3. $Find sin A, if tan^{-1}\left(\frac{3}{4}\right)=A$.
4. $Find θ, if tan^{-1}\sqrt{3}=θ$.
5. $Find x, if sin^{-1}\left(\frac{1}{2}\right)=tan^{-1}x$.
6. $Find the principal value of sin\left(2 sin^{-1}\frac{2}{3}\right).$
7. $Find the principal value of sin\left(\frac{1}{2} cos^{-1}\frac{4}{5}\right).$
8. $Find the principal value of tan^{-1}\left(cot\frac{4π}{3}\right).$
9. $Find the principal value of\sin(\left(tan^{-1}1\right))+cos\left(cos^{-1}\frac{1}{2}\right).$
10. $Find the principal value of tan\left(sin^{-1}\frac{\sqrt{2}}{ 2}\right)-cot\left(cos^{-1}\frac{\sqrt{2}}{ 2}\right).$
11. $Find the principal value of cosec^{-1}\left(-\frac{2\sqrt{3}}{3}\right).$
12. $Find the principal value of cos^{-1}\left[sin⁡(tan^{-1}\left(-1\right))\right].$
13. $Find the principal value of sin\left(2 tan^{-1}3\right).$

**Note**- **Please do this assignment in your copies. It will be checked when the school re-opens.**

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