



# ARTHAM RESOURCES

## HALF YEARLY PAPER 2024-25 CLASS 12 MATHEMATICS

### Section A

1. Let  $S$  be the set of all real numbers and let  $R$  be a relation on  $S$ , defined by  $aRb \Leftrightarrow (1 + ab) > 0$ . Then,  $R$  is [1]  
a) Symmetric and Reflexive but not transitive      b) Reflexive and transitive but not symmetric  
c) Symmetric and transitive but not reflexive      d) reflexive and symmetric but not transitive
2. Identity relation  $R$  on a set  $A$  is [1]  
a) Reflexive only      b) Transitive only  
c) Equivalence      d) Symmetric only
3. The relation  $S$  defined on the set  $R$  of all real number by the rule  $a S b$  if  $a \geq b$  is [1]  
a) neither transitive nor reflexive but symmetric      b) symmetric, transitive but not reflexive  
c) an equivalence relation      d) reflexive, transitive but not symmetric
4. The principal value of  $\sec^{-1} \left( \frac{2}{\sqrt{3}} \right)$  is [1]  
a)  $\frac{2\pi}{3}$       b)  $\frac{\pi}{3}$   
c)  $-\frac{\pi}{3}$       d)  $\frac{\pi}{6}$
5. The principal value of  $\sec^{-1} \left( \frac{-2}{\sqrt{3}} \right)$  is [1]  
a)  $\frac{5\pi}{6}$       b)  $\frac{7\pi}{6}$   
c)  $\frac{\pi}{6}$       d)  $-\frac{\pi}{6}$
6. The principal value of  $\cos^{-1} \left( \frac{1}{2} \right) + \sin^{-1} \left( -\frac{1}{\sqrt{2}} \right)$  is [1]  
a)  $\pi$       b)  $\frac{\pi}{6}$   
c)  $\frac{\pi}{12}$       d)  $\frac{\pi}{3}$

# Sample Half Yearly Maths Papers Year 12

**Sabine Zange**



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