

Worksheet: Integrals

ISC · Class 12 · Mathematics · 8 questions · 33 marks

Name: _____

Date: _____

Score: _____ / 33

Q1. Find the anti derivative of $\cos 3x$. *[2 marks]*

Q2. Integrate: $2x/(1+x^2)$. *[3 marks]*

Q3. Integrate: $1/\sqrt{x^2+2x+2}$. *[4 marks]*

Q4. Integrate: $x/[(x+1)(x+2)]$. *[5 marks]*

Q5. Integrate: $x \log x$. *[4 marks]*

Q6. Evaluate: integral from 0 to $\pi/4$ of $\sin 2x \, dx$. *[4 marks]*

Q7. Evaluate: integral from $-\pi/2$ to $\pi/2$ of $\sin^7 x \, dx$. [5 marks]

Q8. Integrate: $e^{(2x)} \sin x$. [6 marks]
