Worksheet: Integrals

IB · 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]*