

# Mark Scheme SL Math Functions All Non Calculator 66 pages

30 marks  
30 minutes

1. (a) (i) Integrate by partial decomposition:  
 $\frac{1}{x^2(x^2+1)} = \frac{A}{x} + \frac{B}{x^2} + \frac{C}{x^2+1}$   
 Find values of A, B, C.
- (ii)  $\int \frac{1}{x^2(x^2+1)} dx$
- (b) (i) Find the roots of  
 $x^3 + 2x^2 + 2x + 1 = 0$
- (ii) Integrate by partial decomposition and find  $\int \frac{1}{x^3 + 2x^2 + 2x + 1} dx$
- (iii) Find the roots of  
 $x^3 + 2x^2 + 2x + 1 = 0$
- (iv) Integrate by partial decomposition and find  $\int \frac{1}{x^3 + 2x^2 + 2x + 1} dx$

2. (a) (i)  $\frac{1}{x^2(x^2+1)}$   
 $\frac{1}{x^2(x^2+1)} = \frac{A}{x} + \frac{B}{x^2} + \frac{C}{x^2+1}$   
 $1 = A(x^2+1) + B(x^2+1)x + Cx^2(x^2+1)$   
 $1 = A(x^2+1) + B(x^3+x^2) + C(x^4+x^2)$   
 $1 = Ax^2 + A + Bx^3 + Bx^2 + Cx^4 + Cx^2$   
 $1 = Cx^4 + Bx^3 + (A+B+C)x^2 + A$   
 $1 = 0x^4 + 0x^3 + 0x^2 + 1$   
 $C = 0, B = 0, A+B+C = 0, A = 1$   
 $\frac{1}{x^2(x^2+1)} = \frac{1}{x} + \frac{0}{x^2} + \frac{0}{x^2+1}$   
 $\frac{1}{x^2(x^2+1)} = \frac{1}{x}$   
 $\int \frac{1}{x^2(x^2+1)} dx = \int \frac{1}{x} dx = \ln|x| + C$
- (ii)  $\frac{1}{x^2(x^2+1)}$   
 $\frac{1}{x^2(x^2+1)} = \frac{A}{x} + \frac{B}{x^2} + \frac{C}{x^2+1}$   
 $1 = A(x^2+1) + B(x^2+1)x + Cx^2(x^2+1)$   
 $1 = Ax^2 + A + Bx^3 + Bx^2 + Cx^4 + Cx^2$   
 $1 = Cx^4 + Bx^3 + (A+B+C)x^2 + A$   
 $1 = 0x^4 + 0x^3 + 0x^2 + 1$   
 $C = 0, B = 0, A+B+C = 0, A = 1$   
 $\frac{1}{x^2(x^2+1)} = \frac{1}{x} + \frac{0}{x^2} + \frac{0}{x^2+1}$   
 $\frac{1}{x^2(x^2+1)} = \frac{1}{x}$   
 $\int \frac{1}{x^2(x^2+1)} dx = \int \frac{1}{x} dx = \ln|x| + C$

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