Section I

5 marks Attempt Questions 1–5 Allow about 10 minutes for this section

Use the multiple-choice answer sheet for Questions 1-5.

1 What is the simplification of $\frac{x+y}{x^{-2}-y^{-2}} + \frac{1}{x-y}$?

(A)
$$\frac{x^2y^2+1}{y-x}$$

(B)
$$\frac{x^2y^2-1}{y-x}$$

$$(C) = \frac{x^2y^2 + 1}{y + x}$$

$$(D) = \frac{x^2y^2 - 1}{y + x}$$

2 Which is the correct trigonometric expression for $\frac{sin^2\theta - cos^2\theta}{sin^2\theta \cos^2\theta}$?

(A)
$$sin^2\theta - cos^2\theta$$

(B)
$$\cos^2\theta - \sin^2\theta$$

(C)
$$cosec^2\theta - sec^2\theta$$

(D)
$$sec^2\theta - cosec^2\theta$$

3 What is the first derivative of $y = \sqrt{2x^2 - 2}$ with respect to x?

(A)
$$\frac{2x}{\sqrt{x^2-1}}$$

(B)
$$\frac{1}{2\sqrt{x^2-1}}$$

(C)
$$\frac{x}{\sqrt{2}\sqrt{x^2-1}}$$

(D)
$$\frac{\sqrt{2}x}{\sqrt{x^2-1}}$$

Mathematics Preliminary Extension 1 Question

Wolfgang Guggemos

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