

IB Practical Exam: 30 Minutes (1 hour 15 min, Calculator Allowed)

Name: _____ Date: _____ Class: _____

1. Let $f(x) = x^2 + px + q$, $p < 0$. Sketch the graph of f in the Cartesian plane.



The graph passes through the points $(-1, 0)$, $(1, -4)$ and $(3, 0)$.

- (a) Write down the values of p and q . (2)
- (b) Write down the equation of the axis of symmetry. (2)
- (c) Write down the value of p . (2)

(Total 6 marks)

2. Let $\vec{AB} = \begin{pmatrix} 5 \\ 2 \end{pmatrix}$ and $\vec{AC} = \begin{pmatrix} -2 \\ 7 \end{pmatrix}$.

- (a) Find BC . (2)
- (b) Find a unit vector in the direction of \vec{AB} . (2)
- (c) Show that \vec{AB} is perpendicular to \vec{BC} . (2)

(Total 6 marks)

3. Let $A = \begin{pmatrix} 1 & -2 \\ 2 & 1 \end{pmatrix}$ and $B = \begin{pmatrix} 2 & 1 \\ 1 & 2 \end{pmatrix}$.

- (a) Find AB . (2)
- (b) Find $A^{-1} B^{-1}$. (2)

(Total 4 marks)

4. Let $f(x) = \cos 2x$ and $g(x) = 2x^2 - 3$.

- (a) Find $f\left(\frac{\pi}{3}\right)$. (2)
- (b) Find $g_2 = g\left(\frac{\pi}{3}\right)$. (2)
- (c) Observe that $g_2 = 0$. Consider the equation $\cos 2x = 0$. Find the values of x , $0 \leq x < \pi$. (2)

(Total 4 marks)

Ib Math Sl 2013 Tz 2

AW Rasmussen



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