

ADDITIONAL MATHEMATICS PAPER 2

Section A (Answer all questions in this section)

1.		Solve the following simultaneous equation below:	
		$\frac{2x}{3} + \frac{3}{y} = 10$	
		$x + 4y = 12$	[5 marks]
2.		A pendulum of an antique clock swings through an arc of 32 cm. On each successive swing, the length of the arc is reduced to 0.8 of the previous length. a) Find the length of the arc after 6 swings. b) On which swing is the length of the arc less than 20 cm for the first time? c) Find the total distance covered by the pendulum after 10 swings. d) Find the total distance covered by the pendulum before it comes to rest.	
3.		A ball is thrown vertically upwards from the ground with a velocity of 50 m s^{-1}. The height from the ground is given by: $h = 50t - 5t^2$. a) Find the maximum height of the ball without using differentiation. b) Find the time when the ball attains its maximum height. c) Calculate the range of time for which the ball is more than 105 m above the ground.	
4.		$OPQR$ is a trapezium with $\overrightarrow{OP} = \frac{-2}{3}\underline{x}, \overrightarrow{OR} = 6\underline{x} \wedge \underline{l} = 4\underline{y}$. Given S is a point on OR such that $OS: \vee \underline{l} = 1:2$. a) Determine $\overrightarrow{RP}, \overrightarrow{PQ} \wedge \overrightarrow{QS}$. b) If T is the intersection point of QS and PR, given that $\overrightarrow{QT} = \lambda \overrightarrow{QS}$ and $\overrightarrow{RT} = \mu \overrightarrow{RP}$, express $\overrightarrow{QT}$ in terms of i. $\lambda, \underline{x} \wedge \underline{y}$ ii. $\mu, \underline{x} \wedge \underline{y}$ Hence, find the values of $\lambda \wedge \mu$.	
5.			

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LL Leslie

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