7 (a) Solve the equation

$$\cos(3x - 15)° = \frac{\sqrt{3}}{2} \qquad \text{for} \quad 0 \leqslant x < 180$$

(4)

(b) Solve, giving your solutions to one decimal place where appropriate,

$$3\tan y° + 4\sin y° = 0 \qquad \text{for} \quad -180 \leqslant y < 180$$

(4)

(c) Solve, giving your solutions to one decimal place where appropriate,

$$\cos\theta° = 3\sin^2\theta° - 1 \qquad \text{for} \quad -180 \leqslant \theta < 180$$

(4)

P 7 1 6 4 2 A 0 1 8 3 6

Question 7 continued

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Question 7 continued

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Question 7 continued

(Total for Question 7 is 12 marks)