

1 Find the set of values of  $x$  satisfying the inequality

$$|x + 2\alpha| > 3|x - \alpha|,$$

where  $\alpha$  is a positive constant.

[4]

2 Solve the equation

$$2 \ln(5 - e^{-2x}) = 1,$$

giving your answer correct to 3 significant figures.

[4]

3 Solve the equation

$$\cos(x + 30^\circ) = 2 \cos x,$$

giving all solutions in the interval  $-180^\circ < x < 180^\circ$ .

[5]

4 The parametric equations of a curve are

$$x = t - \tan t, \quad y = \ln(\cos t),$$

for  $-\frac{1}{2}\pi < t < \frac{1}{2}\pi$ .

(i) Show that  $\frac{dy}{dx} = \cot t$ .

[5]

(ii) Hence find the  $x$ -coordinate of the point on the curve at which the gradient is equal to 2. Give your answer correct to 3 significant figures.

[2]

5 (i) The polynomial  $f(x)$  is of the form  $(x - 2)^2 g(x)$ , where  $g(x)$  is another polynomial. Show that  $(x - 2)$  is a factor of  $f'(x)$ .

[2]

(ii) The polynomial  $x^5 + ax^4 + 3x^3 + bx^2 + a$ , where  $a$  and  $b$  are constants, has a factor  $(x - 2)^2$ . Using the factor theorem and the result of part (i), or otherwise, find the values of  $a$  and  $b$ .

[5]

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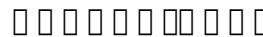
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