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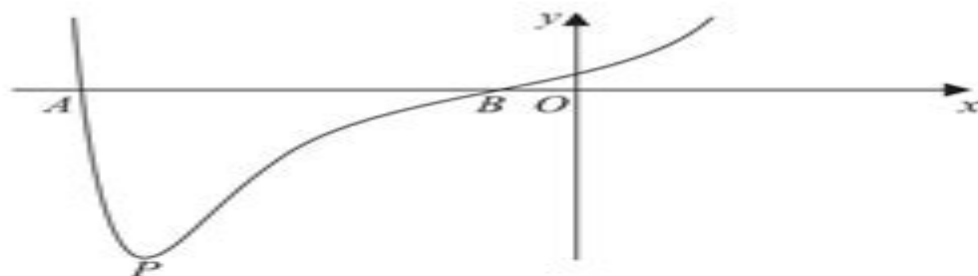


Figure 2

Figure 2 shows a sketch of part of the curve with equation  $y = f(x)$  where

$$f(x) = (x^2 + 3x + 1)e^{x^2}$$

The curve cuts the  $x$ -axis at points  $A$  and  $B$  as shown in Figure 2.

- (a) Calculate the  $x$  coordinate of  $A$  and the  $x$  coordinate of  $B$ , giving your answers to 3 decimal places.

(2)

- (b) Find  $f'(x)$ .

(3)

The curve has a minimum turning point at the point  $P$  as shown in Figure 2.

- (c) Show that the  $x$  coordinate of  $P$  is the solution of

$$x = -\frac{3(2x^2 + 1)}{2(x^2 + 2)}$$

(3)

- (d) Use the iteration formula

$$x_{n+1} = -\frac{3(2x_n^2 + 1)}{2(x_n^2 + 2)}, \quad \text{with } x_0 = -2.4,$$

to calculate the values of  $x_1$ ,  $x_2$  and  $x_3$ , giving your answers to 3 decimal places.

(3)

The  $x$  coordinate of  $P$  is  $\alpha$ .

- (e) By choosing a suitable interval, prove that  $\alpha = -2.43$  to 2 decimal places.

(2)

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web analog circuits interview questions and answers q 1 what is integrated circuit ic answer integrated circuit means that all the components in each circuit are fabricated on the same chip q 2 what are linear ics