

- 2 (b) Given that $T = 2\pi\sqrt{g}^{-1}$, express g in terms of T , π and e .

[3]

$$\begin{aligned} \frac{T}{2\pi\sqrt{g}^{-1}} &= \frac{2\pi e^{1/2} \sqrt{g}^{-1/2}}{2\pi\sqrt{g}^{-1/2}} \\ \frac{T}{2\pi\sqrt{g}^{-1/2}} &= e^{1/2} \quad \text{Note: } \sqrt{x} = x^{1/2} \\ \left(\frac{T}{2\pi\sqrt{g}^{-1/2}}\right)^2 &= (e^{1/2})^2 \quad \sqrt{x^2} = x^{2/2} \\ \frac{T^2}{4\pi^2\sqrt{g}^{-1}} &= e \quad \text{or} \quad g = \frac{T^2\pi}{4\pi^2} \end{aligned}$$

- (b) By using the substitution $y = x^2$, or otherwise, solve $x^4 - 4x^2 + 3 = 0$.

[4]

$$\begin{aligned} y &= x^2 \\ x^4 - 4x^2 + 3 &= 0 \\ (x^2)^2 - 4x^2 + 3 &= 0 \\ y^2 - 4y + 3 &= 0 \\ (y-3)(y-1) &= 0 \\ y=3 & \quad y=1 \\ x^2=3 & \quad x^2=1 \\ (x^2)^2=3^2 & \quad (x^2)^2=1^2 \\ x = \pm\sqrt{3} & \quad x = \pm 1 \end{aligned}$$

2017 Nov Paper 13

- 2 Find the set of values of k for which the equation $2x^2 + 3x - 4 + k = 0$ has no real roots.

[4]

To have no real roots, Discriminant

$$b^2 - 4ac < 0$$

$$\text{In } kx^2 + 3x - 4 + k = 0$$

$$a = k \quad b = 3 \quad c = -4 + k$$

$$3^2 - 4(k)(-4 + k) < 0$$

$$9 + 16k - 4k^2 < 0$$

$$-(4k^2 - 16k - 9) < 0$$

$$4k^2 - 16k - 9 > 0$$

$$(2k-9)(2k+1) > 0$$

$$2k-9 > 0 \quad 2k+1 > 0$$

$$k > 9/2 \quad k > -1/2$$

critical values

$$k < -9/2, \quad k > 9/2$$



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