2017 Nov Paper 11

3 (i) Given that $T = 2\pi e^{x}g^{-1}$, express i in terms of T, g and e. [3]

$$\frac{T}{2\pi g^{-1}} = \frac{2\pi e^{x}g^{-1}}{2\pi g^{-1}}$$

$$\frac{T}{2\pi g^{-1}} = e^{x}$$

Note: $\sqrt[n]{x} = x^{1/n}$

$$\left(\frac{T}{2\pi g^{-1}}\right)^2 = (\sqrt{x})^2$$

$$\sqrt[n]{x^m} = x^{m/n}$$

$$\frac{T^2}{4\pi^2 g^{-1}} = x \qquad \text{or} \qquad x = \frac{T^2 g}{4\pi^2}$$

(ii) By using the substitution $y = x^{1/2}$, or otherwise, solve $x - 4x^{1/2} + 3 = 0$. [4]

$$y = x^{1/2}$$
$$x - 4x^{1/2} + 3 = 0$$
$$(x^{1/2})^2 - 4x^{1/2} + 3 = 0$$
$$y^2 - 4y + 3 = 0$$
$$(y-3)(y-1) = 0$$
$$y = 3 \qquad y = 1$$
$$x^{1/2} = 3 \qquad x^{1/2} = 1$$
$$(x^{1/2})^2 = 3^2 \qquad (x^{1/2})^2 = 1^2$$
$$\boxed{x = 9} \qquad \boxed{x = 1}$$

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

To have no real roots, discriminant
$$b^2 - 4ac < 0$$
In $kx^2 + 3x - 4 + k = 0$
$$a = k \qquad b = 3 \qquad c = -4 + k$$
$$3^2 - 4(k)(-4+k) < 0$$
$$9 + 16k - 4k^2 < 0$$ remove the negative in k^2
$$-(4k^2 - 16k - 9) < 0$$
$$4k^2 - 16k - 9 > 0$$
$$(2k - 9)(2k + 1) > 0$$
$$2k - 9 = 0 \qquad 2k + 1 = 0$$
critical values $k = 9/2 \qquad k = -1/2$
$$k < -\tfrac{1}{2}, \quad k > \tfrac{9}{2}$$

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