2015 O/N P31

(1) $|2x-5| > 3|2x+1|$

$(2x-5)^2 > 3^2(2x+1)^2$

$4x^2-20x+25 > 9(4x^2+4x+1)$

$4x^2-20x+25 > 36x^2+36x+9$

$0 > 32x^2+56x-16$

$4x^2+7x-2<0$

$(4x-1)(x+2)<0$

$x=\frac{1}{4}$ $x=-2$

-2 $\frac{1}{4}$

$\therefore -2 < x < \frac{1}{4}$

(2) $u=3^x$

$3^x+3^{2x}=3^{3x}$

$u+(3^x)^2=(3^x)^3$

$u+u^2=u^3$

$u^3-u^2-u=0$

$u(u^2-u-1)=0$

$u=0$ $u=\frac{-(-1)\pm\sqrt{(-1)^2-4(1)(-1)}}{2(1)}$

$u=\frac{1\pm\sqrt{5}}{2}$

$u=1.618$, $u=-0.618$.

$u=3^x$ $u=0$, (N/A), $\ln(0)$ not possible.

$\ln u = x\ln 3$ $u=-0.618$ (N/A), $\ln(-0.618)$ not possible

$x=\frac{\ln u}{\ln 3}$ $u=1.618$, $x=0.438$

(3) $\tan(\theta-\phi)=3$ $\tan\theta = 1-\tan\phi$

$\frac{\tan\theta-\tan\phi}{1+\tan\theta\tan\phi}=3$

$1-\tan\phi-\tan\phi = 3+3(1-\tan\phi)\tan\phi$

$1-2\tan\phi = 3+3\tan\phi-3\tan^2\phi$

$3\tan^2\phi-5\tan\phi-2=0$

$(3\tan\phi+1)(\tan\phi-2)=0$

$\tan\phi=-\frac{1}{3}$ $\tan\phi=2$

$\phi=161.6°$ $\phi=63.4°$

when $\phi=63.4°$

$\tan\theta=1-2$

$\theta=135°$

when $\phi=161.6°$

$\tan\theta=1-(-\frac{1}{3})$

$\theta=53.1°$

$\theta=53.1°$, $\phi=161.6°$

$\theta=135°$, $\phi=63.4°$

(4) i) Let $p(x)=x^3-x^2-6$

$p(2)=8-4-6=-2(<0)$

$p(3)=27-9-6=12(>0)$

$\therefore$ since there is a change in sign, therefore

$2<\alpha<3$

ii) $x=\sqrt{x+\frac{6}{x}}$

$x^2-x=\frac{6}{x}$

$x^3-x^2-6=0$ (shown)

iii) $x_1=2.5$

$x_2=2.21359$

$x_3=2.21904$

$x_4=2.21876$ } $x=2.219$

$\therefore \alpha=2.219$

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Thomas Griffiths

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