23	**For 2 of** $30=5\times6$ or $30=5\times2\times3$ oe (for numerator) or $\sqrt{180}=6\sqrt{5}$ oe or $\sqrt{180}=2\times3\times\sqrt{5}$ (for denominator) or $25^{2x+7}=\left(5^2\right)^{2x+7}$ or $5^{2(2x+7)}$ oe or $\left(\sqrt{5}\right)^{4x+9}=\left(5^{\frac{1}{2}}\right)^{4x+9}$ or $5^{\frac{1}{2}(4x+9)}$ oe or $\frac{30}{\sqrt{180}}=\sqrt{5}$ oe or 5^{4x+15} as the numerator or 5^{2x+5} as the denominator		3	M1 or 5^{4x+15} as the numerator or 5^{2x+5} as the denominator or $30=5\times6$ or $30=5\times2\times3$ oe or $\sqrt{180}=6\sqrt{5}$ oe or $\sqrt{180}=2\times3\times\sqrt{5}$ or $25^{2x+7}=\left(5^2\right)^{2x+7}$ or $5^{2(2x+7)}$ oe or $\left(\sqrt{5}\right)^{4x+9}=\left(5^{\frac{1}{2}}\right)^{4x+9}$ or $5^{\frac{1}{2}(4x+9)}$ oe or
	$\frac{6\times5\times5^{4x+14}}{6\times5^{0.5}\times5^{2x+4.5}}$ oe eg $\frac{5^{4x+15}}{5^{2x+5}}$ or $\frac{\sqrt{5}^{8x+30}}{\sqrt{5}^{4x+10}}$ oe or $\frac{25^{2x+7.5}}{25^{x+2.5}}$ oe			M1 Correct expression in terms of 6 (or 2 and 3) and 5 with indices Some cancellation could have taken place **or** fully correct with $\sqrt{5}$ and powers **or** 25 and powers
	working required	5^{2x+10}		A1 dep on M2 allow $w = 2x + 10$
				Total 3 marks