4 **(a)** Given that $\dfrac{q^{-2}\sqrt{pr}}{\sqrt[3]{r}(pq)^{-3}} = p^a q^b r^c$, find the value of each of the constants a, b and c. [3]

(b) Solve the equation $3x^{\frac{4}{5}} - 8x^{\frac{2}{5}} + 5 = 0$. [4]

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