1 Solve the inequality $(x+2)(4x-5) \leqslant 0$. [2]

2 Given that $y = \dfrac{4x^3 - 5}{x^2}$, show that $\dfrac{\mathrm{d}y}{\mathrm{d}x}$ can be written as $\dfrac{2(2x^3+5)}{x^3}$. [3]

3 Variables x and y are such that when $\sqrt{y}$ is plotted against x^3 a straight line graph passing through the points (2, 5) and (10, 21) is obtained.

Find y in terms of x. [4]

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