3 Variables x and y are such that when $\sqrt[3]{y}$ is plotted against x^2, a straight line passing through the points (9, 8) and (16, 1) is obtained. Find y as a function of x. [4]

4 The polynomial $\mathrm{p}(x) = mx^3 - 17x^2 + nx + 6$ has a factor $x - 3$. It has a remainder of -12 when divided by $x + 1$. Find the remainder when $\mathrm{p}(x)$ is divided by $x - 2$. [6]

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