7 When e^{5y} is plotted against x^3, a straight line passing through the points $(-2.56, 4.38)$ and $(6.54, 9.84)$ is obtained.

(a) Find y in terms of x. [5]

(b) Find the values of x for which y can exist. [3]

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8 Given that $f''(x) = (3x+5)^{-\frac{2}{3}}$, $f'(1) = 6$, and $f(1) = 20$, find an expression for $f(x)$. [8]

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