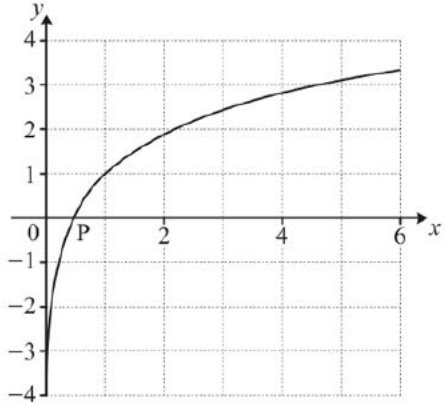
11 The graph of $y = \log_{10}(10x^3)$ is shown. The curve crosses the x-axis at the point P.



(a) Write the equation $y = \log_{10}(10x^3)$ in the form $y = a + b\log_{10}x$ where a and b are integers to be found. **[2]**

(b) Determine the x-coordinate of P. Give your answer correct to **3** significant figures. **[3]**