15. The curve C has equation

 $x^2 \tan y = 9 \qquad 0 < y < \frac{\pi}{2}$

(b) Prove that C has a point of inflection at $x = \sqrt[4]{27}$

$$\frac{\mathrm{d}y}{\mathrm{d}x} = \frac{-18x}{x^4 + 81}$$