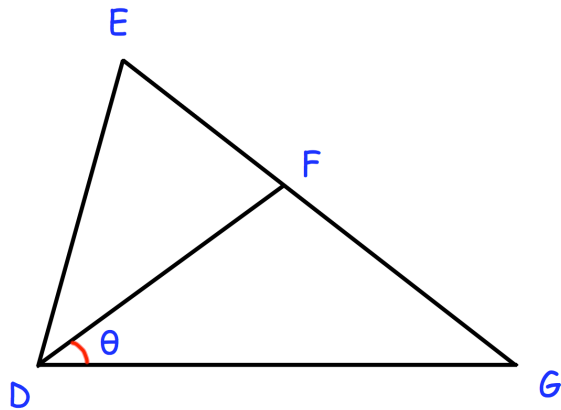


28th January



Corbettmaths

Shown below is triangle DEG



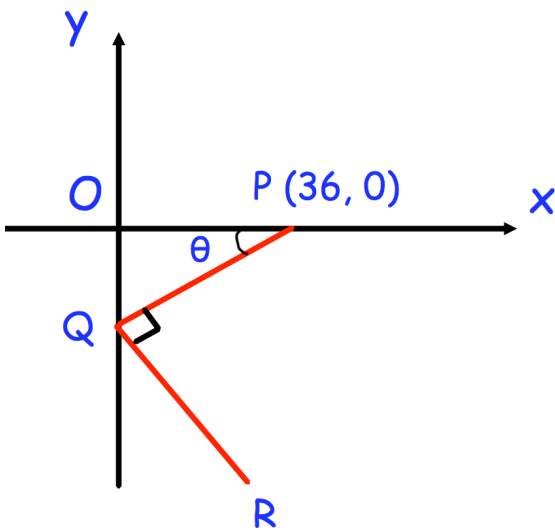
$$DE = DF = FG$$

$$\angle FDG = \theta$$

Prove that $\angle EDF = 180 - 4\theta$

$$y = x^3 + 4x^2 + 2$$

When $x = -2$, show that the value of $\frac{dy}{dx}$ is -4

Angle PQR = 90°

$$\cos \theta = \frac{12}{13}$$

Work out the equation of the line QR