

## 9E The Quotient Rule

1. Given that  $y = \frac{x}{2x+5}$ , find  $\frac{dy}{dx}$

2. A curve  $C$  has equation  $y = \frac{\sin x}{e^{2x}}$ ,  $0 < x < \pi$ .

The curve has a stationary point at  $P$ . Find the coordinates of  $P$ , to 3 significant figures.