## Worksheet for 21 November

Part 1 (quonto Part II if you finish)

$$\mathbb{Z}$$
  $\int_{0}^{4} \times e^{x^{2}} dx$ 

$$\Im \int_{\pi/6}^{\pi/3} \sin^3 x \cos x \, dx$$

Part I

$$\Theta \int_{\ln 2}^{\ln 3} \frac{e^{2x}}{e^{x}+1} dx$$

$$\boxed{5} \int \frac{1}{x[(\ln x)^2 + 4(\ln x + 4)]} dx$$

Challenges (forthe intrepid)

8) Scos(Jx)dx

9) Sec"xdx

 $\int \frac{(1+\chi^2)e^{\chi}}{\chi^2 \cdot e^{1/\chi}} d\chi$