

Worksheet 0

01/18

1) Find the values of x that satisfy each equation

a) $\log_x 6 = 2$ b) $2^{x^2+3} = 4^x$ c) $\ln\left(\frac{x+3}{1-x}\right) = 0$

2) Solve the following integrals

a) $\int x e^{x^2} dx$

b) $\int x e^x dx$

c) $\int x^2 e^x dx$

d) $\int x^3 e^{x^2} dx$