**ENTRANCE TEST**

1. Draw graphs:

a) y = 2x + 1

b) y = x2 + 3

2. Solve equations:

a) 2x+(x-1)= x +14

b) x2+ 4x + 3 = 0

3. Solve inequalities:

a) x - (4x+3) < 2(x+1)

b) x2+ 2x - 3 > 0

4. Take the derivative:

a) y = 3x2 + 5x + 8

b) y = sinx + ex+ 5 lnx