ENTRANCE TEST

1. Draw graphs:

a) $y = 2x + 1$

b) $y = x^2 + 3$

2. Solve equations:

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

b) $x^2+ 4x + 3 = 0$

3. Solve inequalities:

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

b) $x^2+ 2x - 3 > 0$

4. Take the derivative:

a) $y = 3x^2 + 5x + 8$

b) $y = sinx + e^x+ 5\ lnx$