Task 1.2

We are concerned about 3 cases:

Case 1: 4 correct

(6) = drawn 4 from 6 correct

case 2: 5 correct

(6) = drawn 5 from 6 correct

(49-6) = (43) = drawn 1 from 43 false

case 3: 6 correct

 $\binom{6}{6}$ = drawn 6 from 6 correct $\binom{49-6}{6}$ = $\binom{43}{9}$ = drawn no false

We calculate IP(I G n D 1)

case 1

(6) (43) + (6) (43) + (6) (43)

(4) (2) + (5) (1) + (6) (0)

 $= \frac{(5.303 + 6.43 + 1.1)}{1.3983816.10^{7}} = 0.00099$

Task 1.3

 $\frac{3}{10} \left(\frac{200}{10} \right) = 2,2451.10^{16}$

4 n = 3210