



2. P= 1-P independent trials. The expected number of whis out of 10000 games. Should be 1 100 (0000 = lov games. Wrining Loo games is unlikely and the player might be deating. OR. by CLT.  $\mu_{x} = l_{00}, \quad \tau_{x} = \int n_{p}(1-p) = 9.9499$ using 95% confidence when \ \ \ \ \ = 25%.  $P(n=200) = 1 - \frac{1}{4} \left( \frac{200-100}{919493} \right) = 0 < 9$ Thus the player is likely to be cheeting.

3 
$$\int x_1(x,y) = \frac{1}{4\pi} \int x_1 x_2^{2} dx_3$$
 $\int x_1(x,y) = \int_{-\infty}^{\infty} \int x_2(x,y) dy = \int_{-\infty}^{\infty} \int x_1^{2} \int x_2^{2} dx_3$ 
 $\int x_1(x,y) = \int_{-\infty}^{\infty} \int x_2(x,y) dx_3 = \int_{-\infty}^{\infty} \int x_1^{2} \int x_2^{2} dx_3 = \int_{-\infty}^{\infty} \int x_1^{2} \int x_2^{2} dx_3$ 
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Ex = 
$$E(E(x|y)) = \int_{0}^{\infty} 3 cy f_{y} cy f_{y}$$

$$= \int_{0}^{\infty} c c_{y} f_{y} dy$$

$$= \int_{0}^{\infty} 3 c_{y} f_{y} dy$$

$$= \int_{0}^{\infty} 4 c_{y} f_{y} dy$$

$$= \int_{0}^{$$