

3.

(a)

$$V = 7, 8$$

$$P = C_7^{10}(0.75)^7(0.25)^3 + C_8^{10}(0.75)^8(0.25)^2 = 0.5318$$

(b)

$$P = 1 - 0.9^{10} = 0.6513$$