3.

(1) $P = 0.1 \times 0.6^3 = 0.0216$

(2) $P = 0.7 \times 0.1 \times 0.1 \times 0.1 = 0.0007$

(3) $P = 0.1 \times 0.1 \times 0.1 \times 0.1 = 0.0001$

(4) $P = 0.7 \times 0.8 \times 0.8 \times 0.1 = 0.0448$

(5) $P = 0.1 \times 0.6 \times 0.6 \times 0.1 = 0.0036$

(6) $P = 0.7 \times 0.8 \times 0.1 \times 0.6 = 0.0336$