

$$d) P(0) = \left(\frac{5}{0}\right) \left(\frac{5!}{0!(5-0)!}\right) = \frac{120}{11120} = 1$$

$$e) P(0) = \left(\frac{5}{0}\right) \left(\frac{5!}{0!(5-0)!}\right) = \frac{120}{120} = 1$$

$$P(1) = \left(\frac{5}{1}\right) (0.12) (0.88)^4 = (5) (0.12) (0.59969536) \\ = 0.359$$

$$P(2) = \left(\frac{5}{2}\right) (0.12)^2 (0.88)^3 = (2.5) (0.0144) (0.681472)$$

$$= 0.0245$$

$$P(3) = \left(\frac{5}{3}\right) (0.12)^3 (0.88)^2 = (1.6667) (0.001728) (0.7744)$$

$$= 0.002$$

$$P(4) = \left(\frac{5}{4}\right) (0.12)^4 (0.88)^1 = (1.25) (0.00236) (0.88) \\ = 0.00022$$

$$f) M = n \times p$$

Donde: $n = 5$ (Total de aparatos)

$P = 0.12$ (Probabilidad de defecto)

★ Cálculo

$$M = 5 \times 0.12$$

$$M = 0.6 //$$