$$\frac{1}{22} \left(\frac{1}{2} \right) \left(\frac$$

$$P(X \ge X) = P(\neg (X \le X)) = [-P(X \le X)] = P(X = X)$$

$$= [-P(X | M, S)] = [-P(X)] = [-P(X = X)] = P(X = X)$$

$$= [-P(X | M, S)] = [-P(X = X)] = P(X = X)$$

$$= [-P(X | M, S)] = [-P(X = X)] = P(X = X) = P(X$$

$$\begin{split} & p(x < X < X_c) = p(x_1 < \overline{X} \land \overline{X} < X_c) = p(\neg \neg (x_1 < \overline{X} \land X < X_c)) = \\ & = p(\neg (\neg (x_1 < X) \lor \neg (\overline{X} < X_c))) = p(\neg (\overline{X} < X_1 \lor V_2 < \overline{X})) = \\ & = I - p(X < X_1 \lor V_2 < \overline{X}) = I - [F(X_1 | \mu_1 G^2) - I - F(V_2 | \mu_1 G^2)] = \\ & = F(X_1 | \mu_1 G^2) - f(X_1 | \mu_1 G^2) = \Phi(\overline{X} - \underline{M}) - \Phi(\overline{X} - \underline{M}) = \\ & = [Z_1 - \frac{V_1 - M}{3}, Z_1 = X_2 - \underline{M}] = \Phi(\overline{Z}_2) - \Phi(\overline{Z}_1) \end{split}$$

$$P(X \le X) = F(X | M_1 \%) =$$

$$= \left[Z = \frac{X - M}{3} \right] = \Phi(Z)$$

$$P(X \le X) = 1 - F(X | M_1 \%) =$$

$$= \left[Z = \frac{X - M}{3} \right] = 1 - \Phi(Z)$$

$$P(X \le X_1 \lor X_2 \in X) = F(X_1 | M_1 \%) + 1 - F(X_2 | M_1 \%) =$$

$$= \left[Z_1 = \frac{X_1 - M}{3}, Z_2 = \frac{X_2 - M}{3} \right] = \Phi(Z_1) + 1 - \Phi(Z_2)$$

$$P(X_1 \in X_1 \lor X_2 \in X) = F(X_2 | M_1 \%) - F(X_1 | M_1 \%) =$$

$$= \left[Z_1 = \frac{X_1 - M}{3}, Z_2 = \frac{X_2 - M}{3} \right] = \Phi(Z_2) - \Phi(Z_1)$$