FORMULAS TO REMEMBER

EARNED VALUE ANALYSIS

$$CV = EV - AC$$

$$SV = EV - PV$$

$$EAC = AC + (BAC - EV)$$

$$EAC = AC + (BAC - EV)/(CPIXSPI)$$

$$TCPI = (BAC - EV)/(BAC - AC)$$

$$ETC = EAC - AC$$

PROJECT SELECTION METHODS

BENEFIT COST RATIO = TOTAL BENEFITS / TOTAL COSTS

$$PV = FV / (1 + r)^{n}$$

NET PRESENT VALUE = Total Present Value of Revenue - Total Present Value of Costs

DURATION AND COST ESTIMATING

Expected Activity Duration =
$$(P + M + O)/3$$
 => Triangular Distribution

(or Cost)

(or Cost)

SCHEDULE NETWORK ANALYSIS

or

TOTAL FLOAT = LATE FINISH - EARLY FINISH

COMMUNICATION CHANNELS

Number of Communication

$$= n x (n - 1) / 2$$

RISK ANALYSIS

Expected Total Impact = Sum of the EMV values

PROCUREMENT MANAGEMENT

Buyer's Share Ratio