

Name _____

Brief- Calc Semester 2 Formula sheet

Finance Formulas

$$A = P + Prt$$

$$R = L - Lrt$$

$$A_n = P(1+i)^n$$

$$A = P \frac{(1+i)^n - 1}{i}$$

$$P = V \left(\frac{i}{1 - (1+i)^{-n}} \right)$$

$$V = P \left(\frac{1 - (1+i)^{-n}}{i} \right)$$

Probability Formulas

$$P(E \cup F) = P(E) + P(F) - P(E \cap F)$$

$$P(\bar{E}) = 1 - P(E)$$

$$P(E) = \frac{a}{a+b} \text{ (If odds are a to b),}$$

$$P(E) = \frac{b}{b+a} \text{ (If odds are b to a)}$$

$$P(E|F) = \frac{P(E \cap F)}{P(F)}$$

$$P(E \cap F) = P(F) \cdot P(E|F)$$

$$P(E \cap F) = P(E) \cdot P(F)$$

$$b(n,k;p) = \binom{n}{k} p^k \cdot q^{n-k}$$

$$P(A_j|E) = \frac{P(A_j) \cdot P(E|A_j)}{P(E)}$$

$$z = \frac{x - \mu}{\sigma}$$