

### **Formulas Provided on Midterm Exam 5**

$$z = \frac{\bar{X} - \mu}{(\sigma / \sqrt{n})}$$

$$t = \frac{\bar{X} - \mu}{(s / \sqrt{n})} \quad d.f. = n - 1$$

$$z = \frac{\hat{p} - p}{\sqrt{pq/n}} \quad \hat{p} = \frac{X}{n}$$

$$z = \frac{(\bar{X}_1 - \bar{X}_2) - (\mu_1 - \mu_2)}{\sqrt{\frac{\sigma_1^2}{n_1} + \frac{\sigma_2^2}{n_2}}}$$