

| SET | MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY | | |
|-----|---|---|-----|
| | Summary for $H_0: \mu_1-\mu_2=\Delta_0$ | | |
| | Test statistic va | alue: $z = \frac{\overline{x} - \overline{y} - \Delta_0}{\sqrt{\frac{\sigma_1^2}{m} + \frac{\sigma_2^2}{n}}}$ | |
| | H _a : μ ₁ -μ ₂ >Δ ₀ | reject when z≥z _α (upper-tailed test) | |
| | H _a : μ ₁ -μ ₂ <Δ ₀ | reject when $z\leq -z_{\alpha}$ (lower-tailed test) | |
| | H _a : μ₁-μ₂≠Δ₀ | reject when $z \ge z_{\alpha/2}$ or $z \le -z_{\alpha/2}$ (two-tailed test) | |
| | | Stat 3115, Spring 2024 | 297 |

