

## Solutions

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Each answer shows the steps, then the **result**.

**2.1**

- $H_0 : \mu_1 = \mu_2$

**2.2**

- $t = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{s_1^2/n_1 + s_2^2/n_2}}$

**2.3**

- $\sqrt{\frac{36}{36} + \frac{64}{64}} = \sqrt{1 + 1} = \sqrt{2} \approx 1.41$

**3.1 B**

**3.2 A**

**3.3**

(a)

- $\sqrt{\frac{100}{25} + \frac{100}{25}} = \sqrt{8} \approx 2.83$

(b)

- $t = \frac{70 - 65}{2.83} \approx 1.77$