

## Solutions

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

**2.1**

- $H_0 : \mu = \mu_0$

**2.2**

- $t = \frac{\bar{x} - \mu_0}{s/\sqrt{n}}$

**2.3**

- $t = \frac{52 - 50}{8/\sqrt{16}} = \frac{2}{2} = 1.0$

**3.1 A**

**3.2 B**

**3.3**

(a)

- $H_0 : \mu = 100$

(b)

- $t = \frac{104 - 100}{10/\sqrt{25}} = \frac{4}{2} = 2.0$

(c)

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