$$\sigma = \sqrt{\frac{SS}{n}}$$

$$SD = \sqrt{\frac{SS}{n-1}} = \sqrt{\frac{SS}{df}} = \sqrt{\frac{\Sigma(x-m)^2}{df}}$$

1) $H_A: m < \mu(8)$
$H_N: m = \mu$

2) t-distribution.
$M = 8$, $SE = ?$

3) $t(8)_{c.v.} = -1.86$


$\alpha = .05$, 1-tailed
$df = 9 - 1 = 8$

4) $t = \frac{6.67 - 8}{.3} = -4.43$ $SD = \sqrt{\frac{6.5}{8}} = .901$
$SE = \frac{.901}{\sqrt{9}} = .3$

5) $-4.43 < -1.86 \therefore$ Reject $H_N$

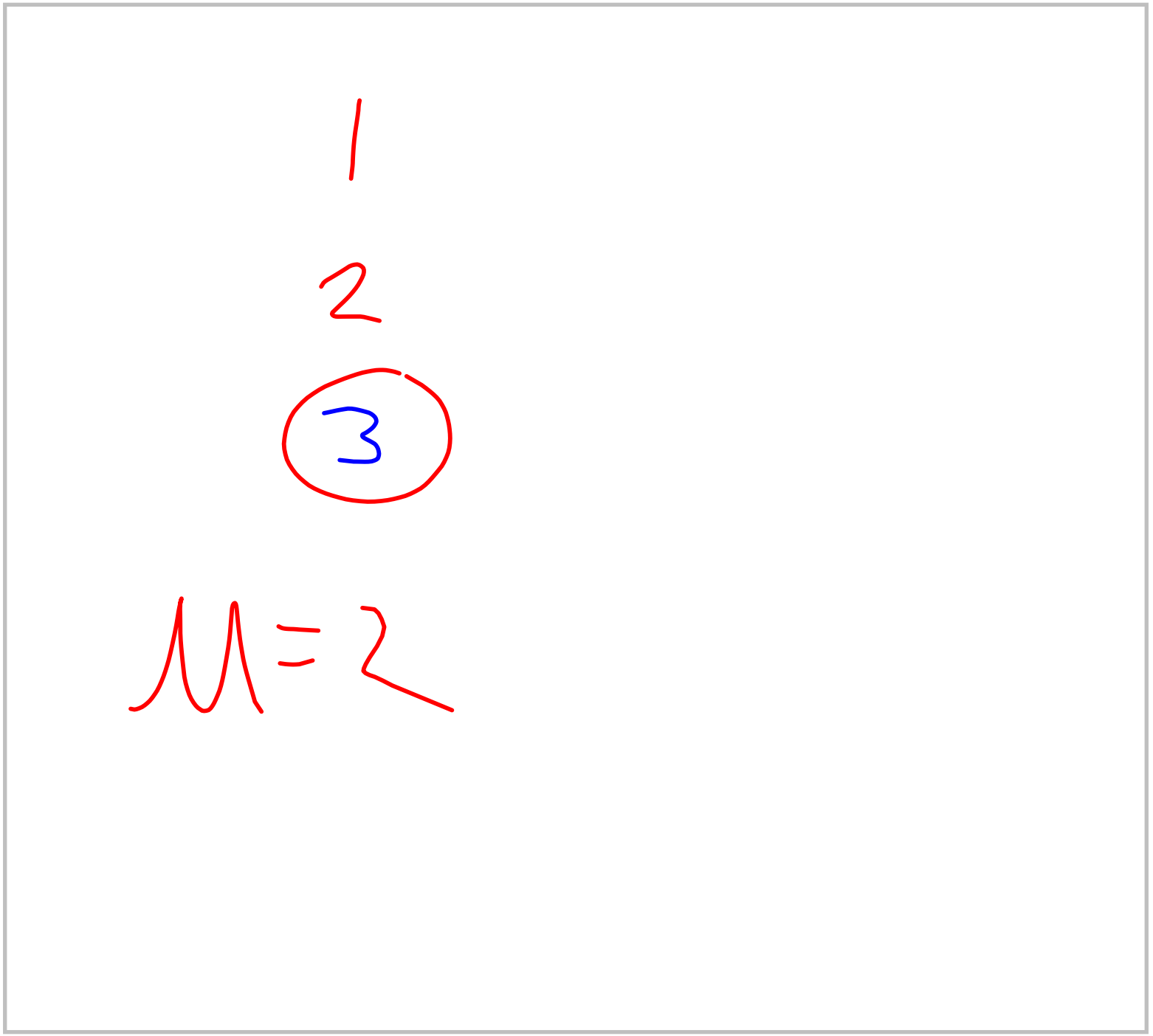
$t(8) = -4.43, p < .05, d = -1.48$

$$t = \frac{M - \mu}{SE} \qquad SE = \sqrt{\frac{SD^2}{n}}$$

$$SE = \sqrt{\frac{\frac{\Sigma(X-M)^2}{n-1}}{n}} = \frac{SD}{\sqrt{n}}$$

$$d = \frac{M - \mu}{SD}$$

$$SD = \sqrt{\frac{SS}{df}}$$




Title: Feb 24 - 9:40 AM (4 of 4)