Where

• $s_x = 3.62771$: Sample standard deviation of group A

• $\mu_0 = 0$: The hypothesized difference in population means

• $\bar{x} = 5.53125$: Sample mean of group x

• $\bar{y} = 6.33333$: Sample mean of group y

• n = 32: Sample size of group x

• m = 39: Sample size of group y

$$\begin{split} s_p^2 &= \frac{(n-1)s_x^2 + (m-1)s_y^2}{n+m-2} \\ &= \frac{(32-1)\cdot 3.62771^2 + (39-1)\cdot 3.29539^2}{32+39-2} \left(\frac{1}{32} + \frac{1}{39}\right) \\ &= 0.82257 \end{split}$$

$$t = \frac{\bar{x} - \bar{y} - \mu_0}{s_p}$$

$$= \frac{5.53125 - 6.33333 - 0}{0.82257}$$

$$= -0.9751$$

$$df = n + m - 2$$
$$= 32 + 39 - 2$$
$$= 69$$

:. p-value =
$$P(T \le t) = P(T \le -0.9751) = 0.1665$$