4. Ha: $40.000 > $6.500 → Satu arah kanan

   n = 10 → rumus t

   α = 0,05

   S = 1889,072

$\bar{X} = 5.502{,}6$

Tingkat signifikan:

t_{tab} = α; (n - 1)

= 0,05; (10-1)

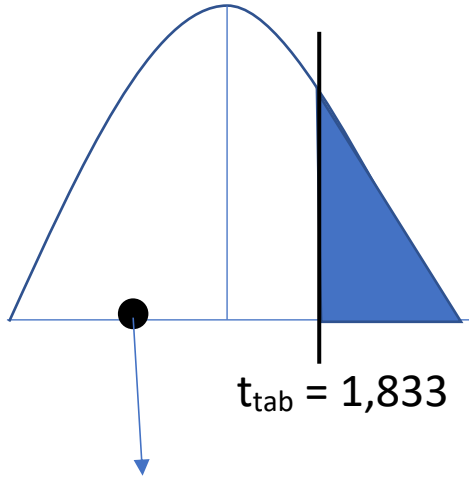
= 0,05; (9) → 1,833

Statistik uji:

$$S\bar{x} = \frac{S}{\sqrt{n}} = \frac{1889{,}072}{\sqrt{10}} = \frac{1889{,}072}{3{,}162} = 597{,}429$$

$$t_{obs} = \frac{\bar{x} - \mu}{S\bar{x}} = \frac{5502{,}6 - 6500}{597{,}429} = \frac{-997{,}4/}{597{,}429} = -1{,}66$$

Aturan Keputusan:



Jadi kesimpulannya hasil klaim diterima dan jawaban alternatif ditolak