43,8

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SUBJECT : PROBSTAT
ACKNOWLEDMENT & SIGNATURE : I AGREE TO SIT THIS EXAM IN AN HONEST AND FAIR MANNER

( )

20

1 + 6

9

3/5 x 12,5 = 7,5

Bagian A

1. Benar
2. Benar
3. Salah
4. Benar
5. salah

Bagian B.

1. a. uji hipotesis ~~statistik.~~

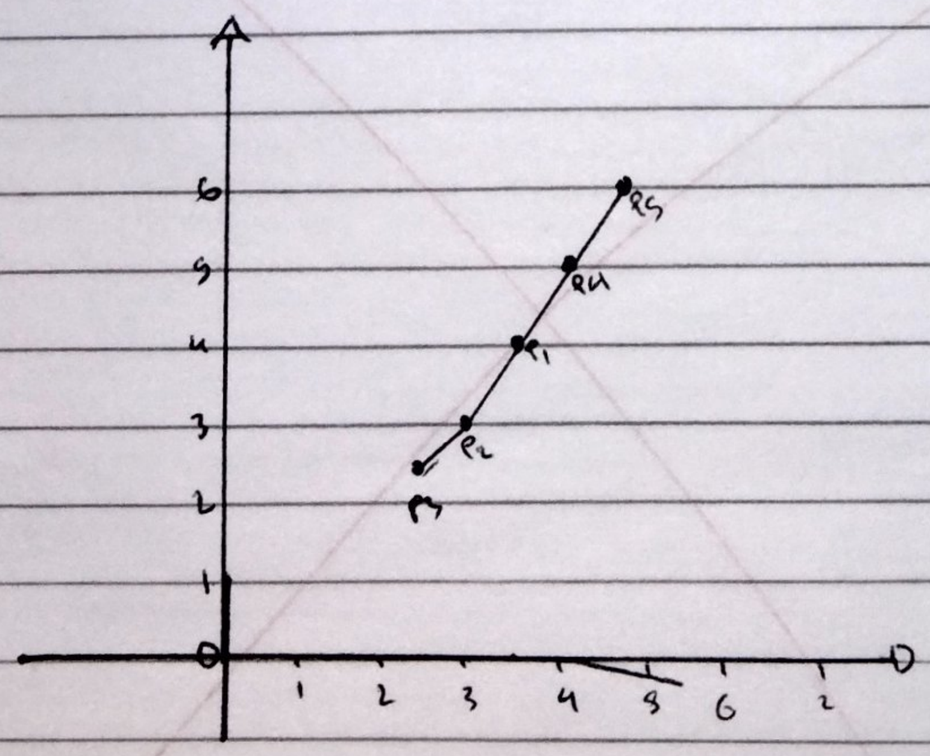
b. Dik: $\alpha$ = 5% = 0,05
n = 40
$\bar{x}$ = 53,6/10 = 5,36
titik kritis = 1,645

Ho = M = 53,6
H1 = M ≠ 53,6.

$z = \frac{\bar{x} - \mu_0}{\sigma/\sqrt{n}}$

Z > Z 0,05
Ho ditolak.

3. a.




4,5

c. Sangat kuat

b.

KIKY

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2. a. Ate: $S_1^2 = 0,09$ $V_1 = 15$

$S_2^2 = 0,16$ $V_2 = 24$

~~$f \leq f_+ - f (15, 24)$~~

~~2. b~~ $S_1^2 = 0,09$ $\alpha = 5\% = 0,05$.

$S_2^2 = 0,16$.

$$X_1^2 = \frac{(n_1-1)S_1^2}{\sigma^2} = X_2^2 = \frac{(n_2-1)S_2^2}{\sigma^2}$$

$$= \frac{(25-1).0,09^2}{\sigma^2} \times \frac{\sigma^2}{2} = 0,64 = \frac{(16-1)0,16^2}{\sigma^2} \times \frac{\sigma^2}{2}$$

$$0,81 = 3,1 = \frac{24.0,09^2}{(0,81)^2} = 3,2 = \frac{(15).0,16^2}{(0,64)^2}$$

$$3,1 = \frac{24.0,09^2}{(0,81)^2} \times \frac{0,05}{2}$$



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2. b.

$X_1^2 = 3.1$ $X_2^2 = 3,2.$

$= n_1 = 25$ $v_1 = 15$

$n_2 = 16$ $v_2 = 24$

$S_1^2 = 0,9$

$S_2^2 = 0,16.$

$$X_1^2 = \frac{(n_1-1)S_1^2}{\sigma^2}$$

$$= \frac{(25-1)S_1^2}{\sigma^2}$$

$$= \frac{24.S^2}{\sigma^2}$$

$$= \frac{24.0,9}{\sigma}$$

$$X_1^2 = \frac{21,6}{\sigma} \times \frac{\sigma}{2}$$

$$X_1^2 = \frac{21,6}{\sigma} \times \frac{0,05}{2} = \frac{10,8}{2\sigma}$$

$$X_2^2 = \frac{(n_2-1)S_2^2}{\sigma^2}$$

$$= \frac{(16-1)S_2^2}{\sigma^2}$$

$$= \frac{15.0,6}{\sigma}$$

$$= \frac{9 \times 0,005}{2\sigma}$$

$$= \frac{0,45}{2\sigma}$$

berbeda.

a. $f < f - \frac{1}{2}\alpha\ (15,24)\ f > f\ \frac{1}{2}\alpha\ (15,24)$

$H_1 = \sigma_1^2 \neq \sigma_2^2$

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