

Nama : Andri Firman Saputra

Pertemuan 10

No.

Date

26/11/2020

NIM : 201011402125

Matematika Diskrit

1. Berapa Nilai dari:

a)  $26 \bmod 6 = 2$

$$\frac{26}{6} = 4 \text{ sisa } 2 //$$

b)  $392 \bmod 9 = 5$

$$\frac{392}{9} = 43 \text{ sisa } 5 //$$

c)  $0 \bmod 7 = 0$

$$\frac{0}{7} = 0 //$$

d)  $7! = 5.040$

$$7 \times 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 5040 //$$

e)  ${}^3 \log 81 = 4$

$$= {}^3 \log 3^4$$

$$= 4 \times {}^3 \log 3$$

$$= 4 //$$

f)  ${}^2 \log 16 - {}^2 \log 32 = -1$

$$= {}^2 \log 2^4 - {}^2 \log 2^5$$

$$= 4 \cdot {}^2 \log 2 - 5 \cdot {}^2 \log 2$$

$$= -1 //$$

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2. Sederhanakanlah :

$$a) 3x^3 \cdot x^{-4} = 3x^{-1}$$

$$= 3x^{3+(-4)}$$

$$= 3x^{-1} //$$

$$b) (a^5 \cdot b^2)^{\frac{1}{4}} = a^{\frac{5}{4}} \sqrt[4]{a \cdot b^2}$$

$$= \sqrt[4]{a^5 \cdot b^2}$$

$$= a^{\frac{5}{4}} \sqrt[4]{a \cdot b^2} //$$