



NAMA:

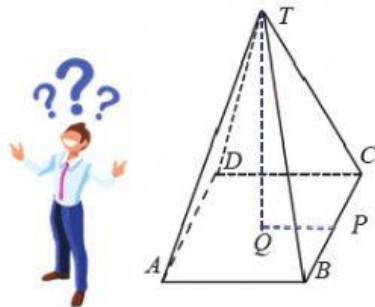
KELAS: NO. ABSEN:



TUGAS MATEMATIKA

BAB III. BANGUN RUANG SISI DATAR

Perhatikan gambar berikut



Limas T.ABCD dengan alas ABCD berbentuk persegi. Panjang $AB = 12 \text{ cm}$. Tinggi limas = $TQ = 8 \text{ cm}$. Hitunglah

- Luas limas
- Volume limas

Penyelesaian

- a. $\text{Luas limas} = \text{Luas alas} + \text{luas sisi tegak}$

$$\text{Luas alas} = \text{Luas ABCD} = AB^2 = \dots\dots\dots^2 = \dots\dots\dots$$

$$\text{Luas sisi tegak} = 4 \times \text{luas } \triangle TBC = 4 \times \frac{1}{2} \times BC \times TP$$

Perhatikan $\triangle TQP$ siku-siku di Q

$$\left. \begin{array}{l} PQ = \dots \\ TQ = \dots \\ TP = \dots \end{array} \right\} \text{Triple Pythagoras}$$

$$\text{Luas sisi tegak} = 4 \times \text{luas } \triangle TBC = 4 \times \frac{1}{2} \times BC \times TP$$

$$= 4 \times \frac{1}{2} \times \dots \times \dots$$

$$= \dots\dots\dots$$

$$\text{Luas limas} = \text{Luas alas} + \text{luas sisi tegak}$$

$$= \dots\dots\dots + \dots\dots\dots$$

$$= \dots\dots\dots$$

$$\text{Jadi luas limas} = \dots\dots\dots \text{ cm}^2$$

- b. $\text{Volume Limas} = \frac{1}{3} \times \text{Luas alas} \times \text{tinggi}$

$$= \frac{1}{3} \times \dots \times \dots$$

$$= \dots$$

$$\text{Jadi volume limas} = \dots\dots\dots \text{ cm}^3$$

Selamat mengerjakan,
sukses selalu

