

$$(2a-6b \quad 4a+10b) = (-26 \quad -8)$$

$$\bullet 6 = 2c$$

$$c = 3$$

$$\begin{array}{l} 2a-6b=-26 \\ 4a+10b=-8 \end{array} \left| \begin{array}{l} \times 2 \\ \times 1 \end{array} \right| \begin{array}{l} 4a-12b=-52 \\ 4a+10b=-8 \end{array} \left| \begin{array}{l} -22b=-44 \\ b=2 \end{array} \right.$$

$$b=2 \rightarrow 4a+10b=-8$$

$$4a=-8-20$$

$$a=-7$$

$$a+b+c = -7+2+3 = -2$$

$$(12) \quad x+4y=1200$$

$$\underline{x+y=600}$$

$$3y=600$$

$$y=200$$

$$y=200 \rightarrow x+y=600$$

$$x=400$$

$$x=400, y=200 \rightarrow x+2y$$

$$400+400=800$$

$$(13) \quad a+a+b+a+2b+a+3b+a+4b=100$$

$$5a+10b=100$$

$$a+2b=20 \quad \text{---(1)}$$

$$a+5b+a+6b+a+7b=132$$

$$3a+18b=132 \quad \text{---(2)}$$

Pers. (1) dan (2)

$$3a+18b=132$$

$$\underline{3a+6b=60} \quad -$$

$$12b=72$$

$$b=6$$

$$b=6 \rightarrow a+2b=20$$

$$a=20-12=8$$

$$U_1 + U_2 + U_3$$

$$a+a+b+a+2b=8+8+6+8+12=42$$

$$(15) \quad 75 \log 90 = \frac{5 \log 90}{5 \log 75} = \frac{5 \log 3^2 \cdot 25}{5 \log 5^2 \cdot 3} = \frac{5 \log 3^2 + 5 \log 25}{5 \log 5^2 + 5 \log 3}$$

$$= \frac{2b+\frac{1}{a}+1}{2+b} = \frac{2ab+1+a}{a+2b}$$

$$= \frac{2ab+a+1}{a(2+b)} = \frac{a+2ab+1}{a(b+2)}$$

$$x^2 - 2ax + 8b = 0$$

$$\text{interval } -4 < x < 8 \rightarrow (x+4)(x-8)=0$$

$$x^2 - 4x - 32 = 0$$

$$\bullet -2a = -4$$

$$a=2$$

$$\bullet 8b = -32$$

$$b=-4$$

$$a-b=2-(-4)=\underline{\underline{6}}$$

$$(48) \quad \cos \theta = \frac{\vec{a} \cdot \vec{b}}{|\vec{a}| |\vec{b}|}$$

$$\cos \frac{\pi}{4} = \frac{2k+\frac{5}{2}}{\sqrt{\frac{17}{4}} \cdot \sqrt{k^2+25}}$$

$$\frac{1}{4} \cdot 2 = \frac{4k^2 + 10k + \frac{25}{4}}{\frac{\pi}{4} (k^2+25)}$$

$$\frac{17}{4}k^2 + 425 = 32k^2 + 80k + 50$$

$$15k^2 + 80k - 375 = 0$$

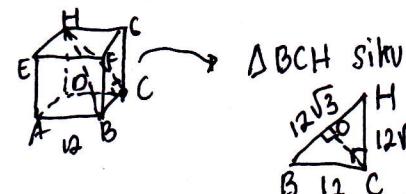
$$3k^2 + 16k - 75 = 0$$

$$\underline{(3k+25)(k-3)} = 0$$

$$k = -\frac{25}{3} \quad \text{V} \quad k = 3$$

T.M

(50)



$$\text{Jarak } C \text{ ke } BH = CO$$

$$\frac{12 \cdot 12\sqrt{2}}{2} = \frac{144\sqrt{3} \cdot CO}{2}$$

$$CO = \frac{12\sqrt{2}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = 4\sqrt{6}$$

$$a \log \frac{b^2}{c} = x$$

$$a \log b^2 - a \log c = x$$

$$a \log c = 2a \log b - x$$

$$a \log bc^2 = y$$

$$a \log b + a \log c^2 = y$$

$$y - a \log b = 2a \log c$$

$$y - a \log b = 2(2a \log b - x)$$

$$y - a \log b = 4a \log b - 2x$$

$$-5a \log b = -2x - y$$