

Remedial KD 3.4

$$2.) F(x) \xrightarrow{\text{Pembagi}} (x^2 - 4) \xrightarrow{\text{Sisa}} (9x - 5)$$

maka $\rightarrow F(x) \rightarrow 13$

$$F(x) \xrightarrow{\text{Pembagi}} (x^2 + x - 2) \xrightarrow{\text{Sisa}} 7x - 9$$

maka $F(x) \xrightarrow{\text{Pembagi}} (x + 2) \xrightarrow{\text{Sisa}} 7x - 9$

$$F(x) \xrightarrow{\text{Pembagi}} (x - 1) \xrightarrow{\text{Sisa}} 7x - 9$$

$F(-2) \rightarrow -23$
 $F(1) \rightarrow -2$

$$F(x) = ax^2 + bx + c$$

$$F(2) = 2a^2 + b(2) + c$$

$$F(-2) = -2a^2 + b(-2) + c$$

$$F(1) = a + b + c$$

$$2a^2 + b(2) + c$$

$$-2a^2 + b(-2) + c$$

$$a^2 + b(2) + c$$

$$F(x) = 4a + 2b + c$$

$$F(-2) = -8a + 2b + c$$

$$F(1) = a + b + c$$

$$\begin{cases} 4a + 2b + c = 13 \\ -8a + 2b + c = -23 \\ a + b + c = -2 \end{cases} \text{Eliminasi}$$

$$\begin{aligned} 4a + 2b + c &= 13 \\ -4a - 2b + c &= -23 \\ \hline 2c &= -10 \\ c &= -5 \end{aligned}$$

$$\begin{aligned} -4a - 2b + c &= -23 \quad | \times 1 \\ a + b + c &= -2 \quad | \times 4 \\ \hline -4a - 2b + c &= -23 \\ -4a + 4b + 4c &= -8 \\ \hline 2b + 5c &= -31 \end{aligned}$$

$$\begin{aligned} -4a - 2b + c &= -23 \\ -4a + 4b + 4c &= -21 \\ \hline 2b + 5c &= -31 \end{aligned}$$

$$\begin{aligned} 2b + 5(-5) &= -31 \\ 2b - 25 &= -31 \\ 2b &= -6 \\ b &= -3 \end{aligned}$$

$$\begin{aligned} a - 3 - 5 &= -2 \\ a - 8 &= -2 \\ a &= 6 \end{aligned}$$

$$F(x) = 6x^2 - 3x - 5$$

$$3.) u_1 = 3$$

$$(u_1, u_2) + (u_1, u_3) + (u_1, u_4)$$