

$$7. f(x) : (x-1) \text{ sisa } 4$$

$$g(x) : (x-1) \text{ sisa } 2$$

$$f(x) : (x+3) \text{ sisa } -5$$

$$g(x) : (x+3) \text{ sisa } 4$$

$$\text{Karena } h(x) = f(x) \cdot g(x)$$

$$\text{maka } h(x) : (x-1) \text{ sisa } 4 \times 2 = 8$$

$$\text{dan } h(x) : (x+3) \text{ sisa } (-5) \times 4 = -20$$

Menurut teo sisa :

$$h(x) : [(x-1)(x+3)] \text{ mpy sisa}$$

$$\text{sisa } ax+b \text{ dgn}$$

$$h(1) = a+b = 8$$

$$h(-3) = -3a+b = -20$$

$$a+b = 8$$

$$-3a+b = -20$$

$$b = 8-a$$

$$= 1$$

$$4a = 28$$

$$a = 7$$

Jadi, sisa dr  $h(x)$  saat dibagi

$$x^2+2x-3 \text{ adl } 7x+1$$

$$8. p(x) = x^3 - 11x^2 + 30x - 8$$

$$\text{cek } x=4$$

$$p(4) = 64 - 176 + 120 - 8$$

$$= 0$$

shg salah satu akar dr  $p(x)$  adl  $(x-4)$

$$9. f(x) : (x+1) \text{ sisa } 10$$

$$f(x) : (2x-3) \text{ sisa } 5$$

Menurut teo sisa,

$$f(x) : [(x+1)(2x-3)] \text{ mpy sisa}$$

$$ax+b \text{ dgn } f(-1) = -a+b$$

$$f(3/2) = \frac{3}{2}a+b$$

krm

$$f(-1) = s(-1) = 10$$

$$f(3/2) = s(3/2) = 5$$

mk :

$$-a+b = 10$$

$$\frac{3}{2}a+b = 5$$

$$\underline{-5/2 a = 5}$$

$$a = -2$$

$$\rightarrow b = 10+a$$

$$= 10+(-2)$$

$$= 8$$

Jadi, sisa  $f(x)$  saat dibagi

$$2x^2-x-3 \text{ adl } (8-2x)$$

$$10. f(x) : (x+2) \text{ sisa } 4$$

$$f(x) : (2x-1) \text{ sisa } 6$$

Menurut teo sisa,

$$f(x) : [(x+2)(2x-1)] \text{ mpy sisa}$$

$$ax+b \text{ dgn } f(-2) = -2a+b$$

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

krm :

$$f(-2) = s(-2) = 4 \rightarrow b = 4+2a$$

$$f(1/2) = s(1/2) = 6 = 4 + 2 \cdot \frac{1}{2}a$$

$$= 4 + a$$

$$= \frac{20}{5}$$

$$= 4$$

mk :

$$-2a+b = 4$$

$$\frac{1}{2}a+b = 6$$

$$\underline{-5/2 a = -2}$$

$$a = 4/5$$

Jadi, sisa  $f(x)$  saat dibagi  $2x^2+3x-2$

$$\text{adl } (4/5x + 5 \frac{3}{5})$$