Nama : _____ **Kelas : _____**

KOMPOSISI FUNGSI

Kerjakan soal berikut dengan benar

Diketahui : $f(x+5) = \frac{4x+10}{5x-4} + 2, x \neq \frac{4}{5}$ dan $f^{-1}(2a-13) = 7$

Ditanya : tentukan nilai a?

Jawab.

Misalkan:

..... + ... = ...

..... = ... - .....

$$f(\dots\dots - \dots\dots) = \frac{\dots\dots(\dots\dots - \cdots\dots) + 10}{\dots\dots(\dots\dots - \cdots\dots) - 4} + 2$$

$$= \frac{\dots\dots - \cdots\dots + 10}{\dots\dots - \cdots\dots - 4} + 2$$

$$= \frac{\dots\dots - \cdots\dots}{\dots\dots - \cdots\dots} + \frac{\dots(\dots\dots - \cdots\dots)}{\dots\dots - \cdots\dots}$$

$$= \frac{\dots\dots - \cdots\dots + \cdots\dots - \cdots\dots}{\dots\dots - \cdots\dots}$$

$$= \frac{\dots\dots - \cdots\dots}{\dots\dots - \cdots\dots}$$

LIVEWORKSHEETS

$$f(x) = \frac{\dots\dots - \dots\dots}{\dots\dots - \dots\dots}$$

$$y = \frac{\dots\dots - \dots\dots}{\dots\dots - \dots\dots}$$

$$\dots\dots(\dots\dots - \dots\dots) = \dots\dots - \dots\dots$$

$$\dots\dots - \dots\dots = \dots\dots - \dots\dots$$

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

$$\dots\dots(\dots\dots - \dots\dots) = \dots\dots + \dots\dots$$

$$\dots\dots = \frac{\dots\dots + \dots\dots}{\dots\dots - \dots\dots}$$

$$f^{-1}(x) = \frac{\dots\dots + \dots\dots}{\dots\dots - \dots\dots}$$

LIVEWORKSHEETS

$$f^{-1}(2a - 13) = 7$$

$$\frac{\dots\dots + \cdots\dots(\dots\dots - 13)}{\dots\dots(\dots\dots - 13) - \cdots\dots} = 7$$

$$\frac{\dots\dots + \cdots\dots - 377}{10a - 64 - 14} = 7$$

$$\frac{\dots\dots - \cdots\dots}{10a - \cdots\dots} = 7$$

$$\dots\dots - \cdots\dots = 7\,(10a - \cdots\dots)$$

$$\dots\dots - \cdots\dots = 70a - \cdots\dots$$

$$\dots\dots - \cdots\dots = \cdots\dots + \cdots\dots$$

$$\dots\dots = \cdots\dots$$

$$a = \cdots\dots$$

LIVEWORKSHEETS