

永中鍾定柳

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NO 三校教131

三校教作 97

ex. 10 已知 $\begin{cases} f(x) \equiv 4x-1 \pmod{(x-4)(x+1)} \\ f(x) \equiv 2x+7 \pmod{(2x-1)(x-1)} \end{cases}$, 求 $r(x)$ of $f(x) \equiv [(2x-1)(x-4)]$

$$f(x) = (2x-1)(x-4) - g(x) + (ax+b)$$

$$\begin{cases} f(4) = 4a+b = 15 \\ f(\frac{1}{2}) = \frac{1}{2}a+b = 9 \end{cases} \Rightarrow \begin{cases} a = \frac{12}{7} \\ b = -\frac{57}{7} \end{cases}$$

$$\Rightarrow r(x) = \frac{12}{7}x - \frac{57}{7} \#$$