

## 


$h(x)-_{g}(x)$

$$
\begin{aligned}
h(x)+g(x) & =\left(2 x^{3}+3 x^{2}+2 x-3\right)+\left(5 x^{2}-4 x+8\right) & & \&\left(2 x^{3}+3 x^{2}+2 x-3\right)-\left(5 x^{2}-4 x+8\right) \\
& =2 x^{3}+3 x^{2}+7 x-y+5 x^{2}-4 x+8 & \circ & 2 x^{3}+3 x^{2}+2 x-3-5 x^{2}+4 x-8 \\
& =2 x^{3}+8 x^{2}-2 x+5 & & h(x) \cdot g(x) \quad h(x) \div g(x)
\end{aligned}
$$

Equating scefficients


$$
a(x-4)^{3}+b
$$

$$
\Longrightarrow x^{3}+\left(b x^{2}+x^{2}\right)+(b x+c x)+c
$$

$$
\begin{gathered}
x^{3}-x^{2}-6 x-4 \\
x^{3}+x^{2}(b+1)+(x+c)+c \\
x^{3}-x^{2}-6 x-4
\end{gathered}
$$

$$
\begin{aligned}
& 1=b+1 \quad \infty \\
& -1=-2+1
\end{aligned}
$$

$$
a(x+c)^{3}+b=\left(a x^{3}+a c^{3}+3 a x^{2}+3 a c^{2} x+b\right.
$$

$$
0 x^{3}-\widetilde{F}_{x}^{2}-2 x+24
$$

$$
b+a c^{3}=24
$$

$$
(x-1)^{2}
$$

$$
3 a c=-5
$$

$$
\begin{array}{ll}
(x-1)^{2}-1-4 \\
(x-1)^{2}-5 & =0
\end{array}(x+\sqrt{s-1)(x-\sqrt{s}-1})
$$

$$
\begin{aligned}
& x= \pm \sqrt{5} \\
& \frac{x=1 \pm \sqrt{5}}{2=(1+\sqrt{5}} \\
& x-1-\sqrt{5}
\end{aligned} \quad(x-2)
$$

$$
\begin{aligned}
& (x-1-\sqrt{5}) \\
& (x-1+\sqrt{5})
\end{aligned}
$$

$$
\begin{aligned}
& (x-2)(x+4)=0 \\
& x-2=0 \quad x+4=0 \\
& x=2 \quad x=-4 \\
& a(x+c)^{3}+b \\
& \text { EXBAND } \\
& {\left[\begin{array}{l}
9 x^{3}-3 a c x^{2}+3 a c^{2} x-a c^{3}+b \\
x^{3}-3 x^{2}-2 x+24
\end{array}\right.} \\
& \begin{array}{rlrl}
a=1 & -3 c c & =-5 & 3 a c^{2}=-2 \quad-a c^{3}+b=24 \\
-3 c & =-5 & 3.1 \cdot\left(\frac{s}{3}\right)^{2} \neq-2 \\
c & =\frac{5}{3} & & \text {. Not sossibu }
\end{array}
\end{aligned}
$$

