

Simplify each of the following:

$$
\text { 1) } 2 x^{3}-5 x+7+6 x^{3}+x+1
$$

2) $-7 n^{3} y-5 n^{2} y^{3}+2 n y^{2}-n^{2} y^{3}-n^{3} y-12 n y^{2}$


Please copy and complete

Simplify each of the following:

$$
\text { 1) } \begin{aligned}
2 x^{3}+6 x^{3} & -5 x+x+7+1 \\
8 x^{3} & -4 x+8
\end{aligned}
$$

2) 

$$
\begin{gathered}
-7 n^{3} y-n^{3} y-5 n^{2} y^{3}-n^{2} y^{3}+2 n y^{2} \\
-8 n y^{2} \\
-8 n^{3} y-6 n^{2} y^{3}-10 n y^{2}
\end{gathered}
$$



Simplify each of the following:

$$
\text { 1) } 2 x^{3}-5 x+7+6 x^{3}+x+1
$$

2) $-7 n^{3} y-5 n^{2} y^{3}+2 n y^{2}-n^{2} y^{3}-n^{3} y-12 n y^{2}$



How are terms separated.?????


## Terms are separated by "+" and "-" signs.



$3 x$

 3 $25 x-15 y$ $\frac{3 \mathrm{x}-4}{5}$

2


Not Poly


$$
\begin{gathered}
\left(5 x^{2}\right)\left(6 x^{3}\right) \\
30 x^{5}
\end{gathered}
$$




$$
\begin{gathered}
3 x-5 x+x+4 y-2 y \\
-x+2 y
\end{gathered}
$$


Expand and collect like terms.





$$
12 x y-15 x y+28 x-6 x-20+3
$$

$$
-3 x y+22 x-17
$$




$$
\begin{aligned}
& 21 x^{2}-\underbrace{28 x z-6 x z}+8 z^{2} \\
& 21 x^{2}-34 x z+8 z^{2}
\end{aligned}
$$

$$
21 x^{2}-28 x z-6 x_{2}+8 z^{2}
$$

$$
21 x^{2}-34 x 2+8 z^{2}
$$

15. Expand and simplify.

$$
\text { a) }(3 s+5)(2 s+2)+(3 s+7)(s+6)
$$



$$
\text { b) }(2 x+3)(5 x+4)-(x-4)(3 x-7)
$$

[^0]\[

$$
\begin{gathered}
\text { a) }(3 s+5)(2 s+2)+(3 s+7)(s+6) \\
6 s^{2}+6 s+10 s+10+3 s^{2}+18 s+7 s+42 \\
6 s^{2}+16 s+10+3 s^{2}+25 s+42 \\
6 s^{2}+3 s^{2}+16 s+25 s+10+42 \\
\left(9 s^{2}+41 s+52\right)
\end{gathered}
$$
\]




[^0]:    3.7 Multiplying Polynomials

