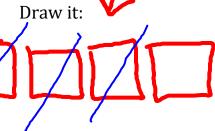
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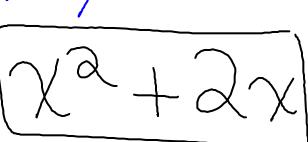
U3:L3 SUb+racting Polynomials

We must remember **RULES** and apply them to properly work with positive and negative numbers.

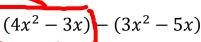
***Remember, when working with integers, we can always add

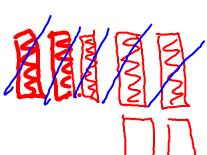




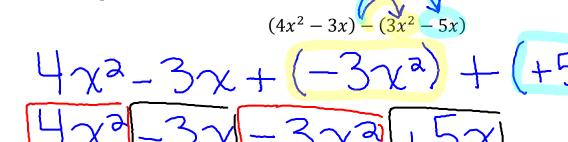


Example:





The difference between adding and subtracting polynomials is that when we subtract, we must distribute the <u>negative sign</u> to the entire polynomial. (In order to drop bracket)





Examples:
$$(2+6x^2)-(7-3x^2)$$
 $2+6x^2-7+3x^2$
 $6x^2+3x^3+2-7$
 $(5-6w^2)-(3-w^2)$
 $5-6w^2-3+w^2$
 $-6w^2+w^2+5-3$

$$\begin{array}{c|c}
-5w^{2}+2 \\
\hline
(-6x^{2}+5x+2)-(4x^{2}+5-2x) \\
\hline
-6x^{2}+5x+2-4x^{2}+5+2x \\
\hline
-6x^{2}-4x^{2}+5x+2x+2-5 \\
\hline
\end{array}$$

$$-10x^{2} + 7x - 3$$

Adding and subtracting polynomials with Fractions



Add the following polynomials:

$$-\frac{1}{6}$$
cd³, $\frac{2}{7} + \frac{1}{3}$ cd³

$$\frac{-1 \text{ cd}^{3} + 1 \text{ cd}^{3}}{6} + \frac{2}{3} + \frac{2}{7}$$

$$\frac{-1 \text{ cd}^{3} + 2 \text{ cd}^{3} + 2}{6} + \frac{2}{7}$$
Find the difference:

$$\frac{\left(-\frac{3}{5}k^2\right)-\left(-\frac{3}{5}k^6\right)}{5}$$

$$\frac{(-2w^5)}{3} - \frac{2}{3}w^5$$
 $\frac{3}{3}w^5$

$$\frac{-8}{3}W^{5} \left(-\frac{3}{3}W^{5}\right)$$