Use this variable expression:

$-14w^2 -18wx +4x^2 -30$

- How many terms are there? 4
- What do we call the numbers -14, -18, and 4? Coefficients
- What do we call the number -30? Constant

$-14w^2 -18wx +4x^2 -30$

Individual terms are separated with ADDITION and SUBTRACTON

When you multiply or divide numbers and variables you create 1 term.

Term:

could be:

- just a number
- just a variable
- the product of more than one variable
- the product of a number and a variable or variables.

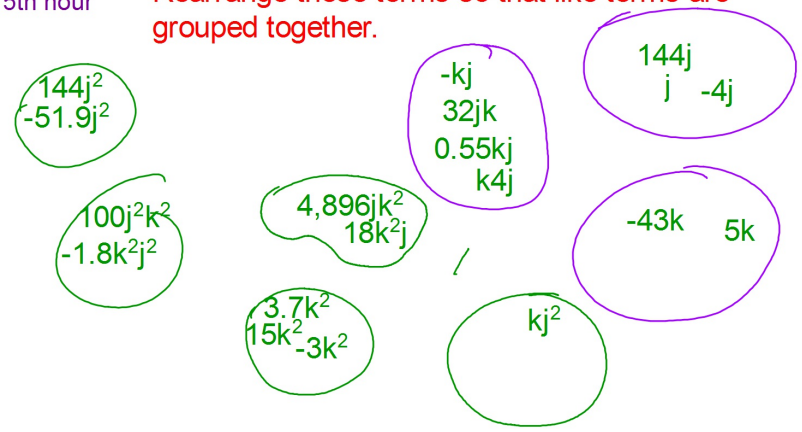
2nd Hour Rearrange these terms so that like terms are grouped together.

$144j$ kj^2 $100j^2k^2$ $5k$ $3.7k^2$ $-1.8k^2j^2$ $32jk$ $144j^2$ j $0.55kj$ $k4j$ $-51.9j^2$ $-3k^2$ $-43k$ $4{,}896jk^2$ $18k^2j$ $-4j$ $15k^2$ $-kj$

See the next page for the correct grouping

5th hour

Rearrange these terms so that like terms are grouped together.



Like Terms:

Terms that have both of the following conditions:

- Same variable(s)
- Same exponents on those variable(s)
- What doesn't matter? The coefficients

Combining like terms:

Finding terms that are alike then adding and subtracting them using the coefficients so that there is only one term with each type of variable part.

Simplify each.

half sheet

1. $4(x + 7) - 3(2x - 4)$

$4x + 28 - 6x + 12$

$-2x + 40$

2. $-6a^2b + ab^2 - 4b^2a + 7ab - 2a^2b - 5ab^2$

$-8a^2b - 8ab^2 + 7ab$