

**Topic:** Simplify Using (+, -, x, ÷)**Videos Required:**

Video 1, Video 2, Video 3 & Video 4

1	$\frac{2x-10}{-2} + \frac{6x-12}{3} =$	7	$4(7x - 3) - 2(3 - 5x) - 5(2x + 1) =$
2	$\frac{4x-6}{2} + \frac{18x-21}{-3} =$	8	$\frac{10x-20}{-10} + \frac{7x-12}{1} =$
3	$-3(2y + 3) - 4(5 - 4y) =$	9	$\frac{4(2x + 10)}{2} + \frac{3x-21}{-3} =$
4	$-5(2x - 5) - 2(3x + 2) =$	10	$\frac{6x-18}{-2} + \frac{3x-15}{-3} + \frac{16x-12}{4} =$
5	$\frac{-1(2x+20)}{-2} + \frac{25x-5}{5} =$ <i>(Hint: multiply the top brackets by -1 first to get RID of the brackets). Only multiply 2x+20 by the -1. Use NLS as usual.</i>	11	$\frac{-1(2x-4)}{-2} + \frac{6x-15}{3} + \frac{3x-5}{-1} =$
6	$\frac{-2(3y-9)}{-3} + \frac{6x-24}{-3} =$	12	$5(4x + 3y - 1) - 2(5 - 3x + 2y) =$ <i>Remember multiply all 3 numbers inside the brackets by the number outside. Remember use NLS when multiplying or dividing.</i>

Answers:

1	$x+1$	7	$28x - 23$
2	$-4x+4$	8	$6x-10$
3	$10y-29$	9	$3x+27$
4	$-16x+21$	10	$+11$
5	$6x+9$	11	-2
6	$-2x + 2y + 2$	12	$26x+11y-15$