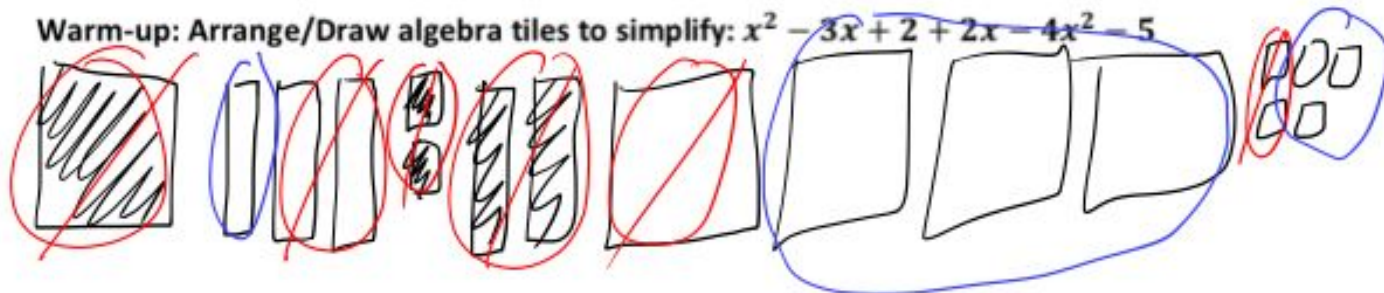


Math 9 Section 5.2 – Adding/Subtracting Polynomials

Homework: Section 5.2 on Pg. 169; #1-8half

Warm-up: Arrange/Draw algebra tiles to simplify: $x^2 - 3x + 2 + 2x - 4x^2 - 5$



$$-x - 3x^2 - 3$$

Answer (using variables): $-x - 3x^2 - 3$

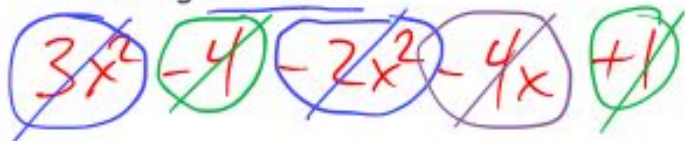
Constant(s) in answer: -3

Coefficient(s) in answer: $-3, -1$

Simplify: $(3x^2 - 4) + (-2x^2 - 4x + 1)$ by

Like terms

Circling like terms:



$$x^2 - 3 - 4x$$

Stacking:

$3x^2$	-4	
$+ -2x^2$	$+1$	$-4x$
x^2	-3	$-4x$

Simplify: $(-2x + x^2 + 3) - (2x^2 - 6x + 3)$ by

Circling like terms:

$$\cancel{-2x} + \cancel{x^2} + \cancel{3} + (\cancel{-2x^2} + \cancel{6x} - \cancel{3})$$

$$4x - x^2 + 0$$

Stacking:

$$\begin{array}{r} 3 - (+7) \\ 3 + (-7) \\ -2x + x^2 + 3 \\ + 6x - 2x^2 - 3 \\ \hline 4x - x^2 + 0 \end{array}$$

Simplify: $(2 - 4x - 3x^2) + (6 - 2x^2 - 4x) - (5 - 8x)$ by

Circling like terms:

$$\boxed{2} - \boxed{4x} - \boxed{3x^2} + \boxed{6} - \boxed{2x^2} - \boxed{4x} - \boxed{5} + \boxed{8x}$$

$$= 3 + 0x - 5x^2$$

$$= \underline{3 - 5x^2}$$

Stacking:

$$\begin{array}{r} 2 - 4x - 3x^2 \\ + 6 - 4x - 2x^2 \\ + -5 + 8x \\ \hline 3 + 0x - 5x^2 \\ \underline{3 - 5x^2} \end{array}$$