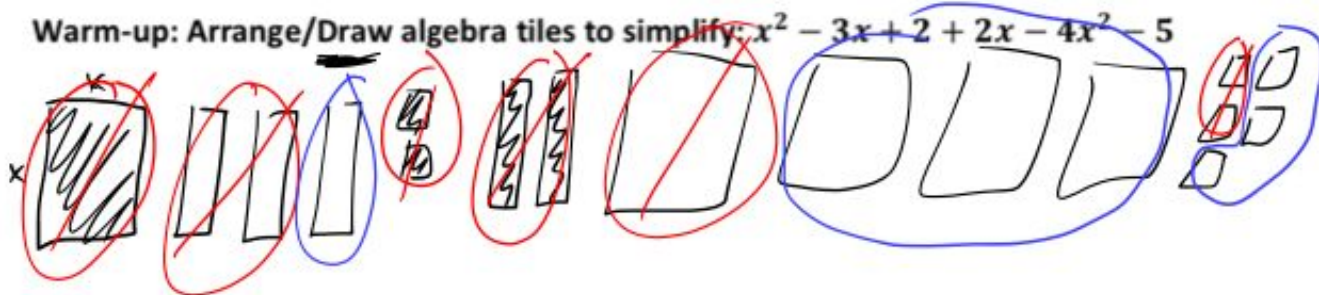


Math 9 Section 5.2 – Adding/Subtracting Polynomials

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

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



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

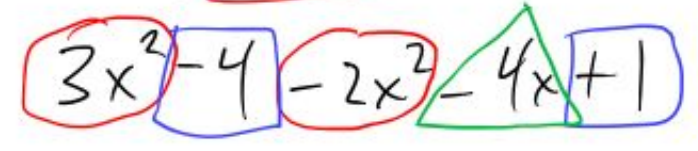
Constant(s) in answer: -3

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

in front var

Simplify: $(3x^2 - 4) + (-2x^2 - 4x + 1)$ by $\begin{array}{r} 347 \\ + 22 \\ \hline \end{array}$

Circling like terms:



$$\underline{= x^2 - 4x - 3}$$

Stacking:

$$\begin{array}{r|l} 3x^2 & -4 \\ \hline + & -2x^2 & +1 & -4x \\ \hline = & x^2 & -3 & -4x \end{array}$$

distribute

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

Circling like terms:

$$\begin{array}{ccccccc} -2x & + & x^2 & + & 3 & - & 2x^2 & + & 6x & - & 3 \end{array}$$

$$= \underline{4x - x^2}$$

Stacking:

$$\begin{array}{r} -2x + x^2 + 3 \\ \oplus \quad +6x - 2x^2 - 3 \\ \hline = \underline{4x - x^2 + 0} \end{array}$$

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

Circling like terms:

$$\begin{array}{ccccccccccc} 2 & - & 4x & - & 3x^2 & + & 6 & - & 2x^2 & - & 4x & - & 5 & + & 8x \end{array}$$

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

Stacking:

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