

5.3 Adding Polynomials

May 11, 2015 9:06 AM

Symbolically

Add $(3c^2 + 5c - 6) + (2c^2 - 3c + 4)$

$$3c^2 + 5c - 6 + 2c^2 - 3c + 4$$

$$3c^2 + 2c^2 + 5c - 3c - 6 + 4$$

$$\boxed{5c^2 + 2c - 2}$$

1. remove brackets

2. group like terms

3. add coefficients of like terms

Vertically

Add $(2m + 9) + (3m^2 + m - 14)$

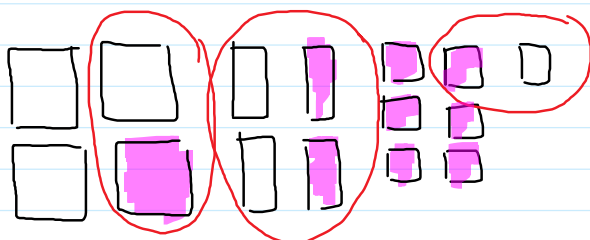
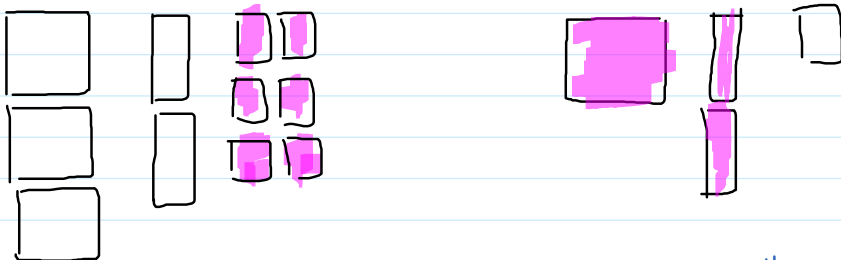
* remove the brackets, and align like terms vertically

$$\begin{array}{r} + 2m + 9 \\ + 3m^2 + 1m - 14 \\ \hline \boxed{3m^2 + 3m - 5} \end{array}$$

Algebra Tiles

Add

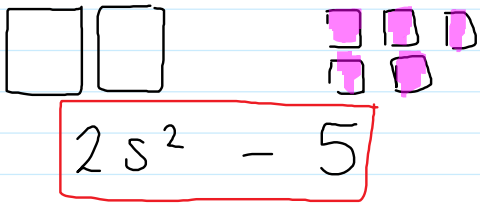
$$3s^2 + 2s - 6 + (-s^2 - 2s + 1)$$



combine/group matching tiles

remove zero pairs

the remaining tiles are



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