

Name _____ Date: _____

Algebra 1- Worksheet Polynomials

Adding Polynomials

EXAMPLE: Add $(-7a^2 + 3) + (9a^2 - 10)$ group like terms together vertically, then add them together. **SHOWN BELOW**

$$\begin{array}{r} -7a^2 + 3 \\ 9a^2 - 10 \end{array}$$

$$\boxed{2a^2 - 7}$$

1) Add $\begin{array}{r} 14x - 11 \\ 6x + 3 \end{array}$

2) Add $\begin{array}{r} 3x^3 - x + 4 \\ x^3 + 5x - 5 \end{array}$

3) Add $\begin{array}{r} 3x^2 + 6x - 11 \\ -7x^2 - 9x + 5 \end{array}$

4) Add $\begin{array}{r} 9 - 5x^4 + x \\ -2 - 2x^4 + 4x \end{array}$

5) Add $(3a - 1) + (4a + 3)$

$$\begin{array}{r} 3a - 1 \\ 4a + 3 \\ \hline \end{array}$$

6) Add $(4x - 5y + 3) + (-2x + 7y + 7)$

$$\begin{array}{r} 4x - 5y + 3 \\ -2x + 7y + 7 \\ \hline \end{array}$$