



7-1 Reteach to Build Understanding

Adding and Subtracting Polynomials

1. Complete the sentences about each polynomial by writing a number in the first blank in each sentence, and a word in the second blank.

$$7x^2 + 2x + 1$$

There are _____ terms, so it is a _____.

The highest degree is _____, so it is _____.

$$4x - 3$$

There are _____ terms, so it is a _____.

The highest degree is _____, so it is _____.

$$5x^3$$

There is _____ term, so it is a _____.

The highest degree is _____, so it is _____.

2. Samara incorrectly added the polynomials $4x^2 + 2x - 3$ and $5x^3 + 3x^2 + x$. Place an X next to any errors. Explain and correct Samara's error.

$$\begin{array}{r} 4x^2 + 2x - 3 \\ + 5x^3 + 3x^2 + x \\ \hline 9x^3 + 5x^2 - 2x \end{array}$$

3. Find the difference $(4x^2 - 6x + 4) - (x^2 + x - 7)$.

$$\begin{aligned} (4x^2 - 6x + 4) - (x^2 + x - 7) &= 4x^2 - 6x + 4 \underline{\hspace{2cm}} \\ &= (4x^2 + \underline{\hspace{1cm}}) + (-6x + \underline{\hspace{1cm}}) + (4 + \underline{\hspace{1cm}}) \\ &= \underline{\hspace{1cm}}x^2 + \underline{\hspace{1cm}}x + \underline{\hspace{1cm}} \end{aligned}$$

The difference of $(4x^2 - 6x + 4)$ and $(x^2 + x - 7)$ is _____.