

Warm Up Questions

Write in Simplified Form:

1. $+8a^2 - 3a + 5 + a - 5 + 7a^2$

2. $-8x - x + x^3 - 7x^2 - 5x^3 - 7x^2 + 10$

3. $9 + 2m - 2m^2 - 2m - 1 - m^2$

4. $5a^2b - 2a + 5a^2 + a^2b - 3b + 7a^2 - a^2b + 5b$

$$1. \quad \underline{8a^2} - \underline{3a} + \underline{5} + \underline{a} - \underline{5} + \underline{7a^2}$$

$$= 8a^2 + 7a^2 - 3a + 1a + 5 - 5$$

$$= 15a^2 - 2a$$

$$2. \quad \underline{-8x} \quad \underline{-x} \quad + \quad \underline{x^3} \quad \underline{-7x^2} \quad \underline{-5x^3} \quad \underline{-7x^2} \quad \underline{+10}$$

$$= 1x^3 - 5x^3 - 7x^2 - 7x^2 - 8x - 1x + 10$$

$$= -4x^3 - 14x^2 - 9x + 10$$

$$3. \quad \underline{9} + \underline{2m} - \underline{2m^2} - \underline{2m} - \underline{1} - \underline{m^2}$$

$$= -2m^2 - 1m^2 + 2m - 2m + 9 - 1$$

$$= -3m^2 + 8$$

$$\begin{aligned} 4. \quad & \underline{5a^2b} - \underline{2a} + \underline{5a^2} + \underline{a^2b} - \underline{3b} + \underline{7a^2} - \underline{a^2b} + \underline{5b} \\ & = 5a^2b + 1a^2b - 1a^2b + 5a^2 + 7a^2 - 2a - 3b + 5b \\ & = 5a^2b + 12a^2 - 2a + 2b \end{aligned}$$