

Name \_\_\_\_\_

## Adding, Subtracting Monomials Lesson



Simplify:  $6x^2 - x^2 + 7x^2 - y^4 =$

**Explanation:**

**Step 1) Combine similar terms.**

**In this case we have only two types of terms. ( $x^2$  and  $y^4$ )**

$$\underbrace{6x^2 - x^2 + 7x^2}_{x^2 \text{ terms}} - \underbrace{y^4}_{y^4 \text{ term}} =$$

**A) Combine  $x^2$  terms:  $(6x^2 - x^2 + 7x^2) = 12x^2$**

**B) -  $y^4$  has no other terms to combine with, so it stays as is.**

**Write all remaining terms.**

$$12x^2 - y^4$$

