

Algebra 1      8.4

Find squares of sums and differences

Find the product of a sum and a difference

✓ *perfect square*

sum

difference

product

✓ EWE

✓ difference of squares

X-factor

Scavenger hunt

$$2 \cdot 6p \cdot -1$$

**Guided Practice**

Find each product.

2A.  $(6p - 1)^2$

2B.  $(a - 2b)^2$

$$(6p - 1)(6p - 1)$$

$$36p^2 - 12p + 1$$

**Example 4** Product of a Sum and a Difference

Find  $(2x^2 + 3)(2x^2 - 3)$ .

$$4x^4 - 9$$

### Guided Practice

Find each product.

4A.  $(3n + 2)(3n - 2)$

$$9n^2 - 4$$

$$(2x - 5)(3x + 1)$$

$$\begin{array}{r} 2x - 5 \\ 3x + 1 \end{array}$$

$$\begin{array}{r} \hline 6x^2 \quad 2x \quad - 5 \\ \quad - 15x \end{array}$$

$$\hline 6x^2 - 13x - 5$$

**4B.**  $(4c - 7d)(4c + 7d)$