

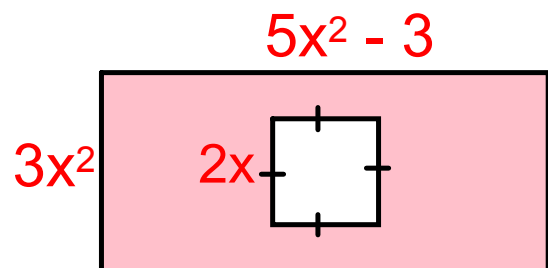
Warm Up

1. $6x^2y^3(5x - 4y^2) - 5xy^2(4x^2 - 3xy^3)$

2. $(5a^2 - 6b^3) - 2a(a - 3ab^4)$

3. $(2m^3n^5 - 6m^3 + 8m^5n) \div 2m^2$

4. Find the Area
of the shaded area.



$$1. \quad 6x^2y^3(\underline{5x} - \underline{4y^2}) - 5xy^2(\underline{4x^2} - \underline{3xy^3})$$

$$30x^3y^3 - \underline{\underline{24x^2y^5}} - 20x^3y^2 + \underline{\underline{15x^2y^5}}$$

$$= 30x^3y^3 - 9x^2y^5 - 20x^3y^2$$

$$2. \quad (5a^2 - 6b^3) - 2a(a - 3ab^4)$$

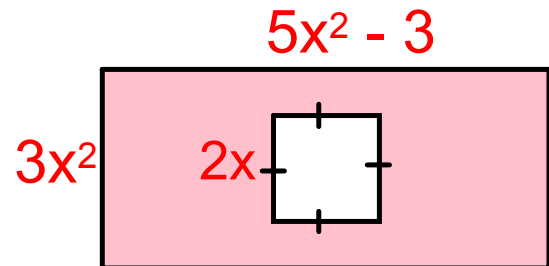
$$5a^2 - 6b^3 - 2a^2 + 6a^2b^4$$

$$= 3a^2 - 6b^3 + 6a^2b^4$$

$$3. \quad (2m^3n^5 - 6m^3 + 8m^5n) \div 2m^2$$

$$\frac{2m^3n^5}{2m^2} - \frac{6m^3}{2m^2} + \frac{8m^5n}{2m^2}$$
$$= 1m^1n^5 - 3m^1 + 4m^3n^1$$

4. Find the Area
of the shaded area.



Larger

$$A = L \times W$$

$$A = 3x^2(5x^2 - 3)$$

$$= 15x^4 - 9x^2$$

Smaller

$$A = L \times W$$

$$A = 2x(2x)$$

$$A = 4x^2$$

$$15x^4 - 9x^2 - (4x^2)$$

$$15x^4 - 9x^2 - 4x^2$$

$$= 15x^4 - 13x^2$$