

1. Multiply.

$$(-4x^5)(6x^7) = \boxed{-24x^{12}}$$

\uparrow $\leftarrow 5+7$
 $-4 \cdot 6$

2. Multiply.

$$x^2(-2x)(-5x^4) = \boxed{10x^7}$$

\uparrow $\leftarrow 2+1+4$
 $1 \cdot (-2) \cdot (-5)$

3. Simplify: $(-5a^3)^3$

$$= \boxed{-125a^9}$$

\uparrow $\leftarrow 3 \cdot 3$
 $(-5)^3$

4. Multiply: $3x(2x^2 + 5x + 1)$

$$= 3x \cdot 2x^2 + 3x \cdot 5x + 3x \cdot 1$$

$$= \boxed{6x^3 + 15x^2 + 3x}$$

5. Multiply: $-x^2(3x^4 - 4x + 5)$

$$= -x^2 \cdot 3x^4 + (-x^2) \cdot (-4x) + (-x^2) \cdot 5$$

$$= \boxed{-3x^6 + 4x^3 - 5x^2}$$

6. Multiply $2x^2(-3x + 2)(x + 5)$

$$= 2x^2(-3x^2 - 15x + 2x + 10)$$

$$= 2x^2(-3x^2 - 13x + 10)$$

$$= \boxed{-6x^4 - 26x^3 + 20x^2}$$

7. What's the conjugate of $2y - 1$?

$$\boxed{2y + 1}$$

8. Multiply: $(4x - 3)(4x + 3)$

$$= (4x)^2 - (3)^2$$

$$= \boxed{16x^2 - 9}$$

$(a+b)(a-b) = a^2 - b^2$

9. Write an expression for the area of the following rectangle, and simplify it.

↑
multiply

$$\text{Area} = (2x-1)(5x+2)$$

$$= 2x \cdot 5x + 2x \cdot 2 + (-1) \cdot 5x + (-1) \cdot 2$$

$$= 10x^2 + \underline{4x} - \underline{5x} - 2$$

$$= \boxed{10x^2 - x - 2}$$



$5x + 2$

$2x - 1$

Q: What belongs to you but others use it more than you do?