

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 10.1 - Multiplying Algebraic Expressions

Simplify each expression.

1. $2 \cdot 6x$

$$12x$$

2. $2x \cdot 6x$

$$12x^2$$

3. $9x \cdot 3$

$$27x$$

4. $9x \cdot 3x$

$$27x^2$$

5. $-1.2x \cdot 3x$

$$-3.6x^2$$

6. $(-8x)(-4x)$

$$32x^2$$

7. $7x^2 - 2(3 - x^2)$

$$7x^2 - 6 + 2x^2$$

$$9x^2 - 6$$

8. $x^2 - 7(5 - 3x^2)$

$$x^2 - 5 + 3x^2$$

$$4x^2 - 5$$

9. $-6x(4x - 3) + 2(7 - 2x^2)$

$$-24x^2 + 18x + 14 - 4x^2$$

$$-28x^2 + 18x + 14$$

10. $4(5x^2 + 3) - x(3x + 1)$

$$20x^2 + 12 - 3x^2 - x$$

$$17x^2 + 12 - x$$