Combine Like Terms, Use Distributive Property Worksheet Answer Key

Fact or Fiction: Factorials Have Nothing to Do With Factoring

Simplify.

1.
$$4xy + 3x^2y - 3xy + 2x^2y$$

= $(4-3)xy + (3+2)x^2y$
= $xy + 5x^2y$

Use the distributive property to simplify.

$$6. -2(x+4) \\ = -2x - 8$$

2.
$$3x^2 + 4x - 6x - 2x^2$$

= $(3-2)x^2 + (4-6)x$
= $x^2 - 2x$

7.
$$4x(x^2+3)$$

= $4x^3+12x$

3.
$$4mn - 6n^2 + 2mn$$

= $-6n^2 + (4+2)mn$
= $-6n^2 + 6mn$

$$8. \ 3x(-4+5y) \\ = -12x + 15xy$$

4.
$$16xy + 6x - 4m - (4xy - 3m)$$

= $16xy + 6x - 4xy + 3m$
= $12xy + 6x - m$

9.
$$-6a(4b+c)$$

= $-24ab - 6ac$

5.
$$8a + 4b + 6 - (3a + 2b + 4)$$

= $8a + 4b + 6 - 3a - 2b - 4$
= $5a + 2b + 2$

$$10. \ 4x^2(-3x+2) \\ = -12x^3 + 8x^2$$

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