0.5 - Combining Like Terms

Name: _____

1. Which expression is equivalent to
$-3x + 5 - 2x - 2$?

A. $-5x + 7$ B. $-5x + 3$

C. $2x - 4$ D. $-x + 3$

2. The width of a rectangle measures $(k + 4)$ centimeters, and its length measures $(7k - 2)$ centimeters. Which expression represents the perimeter, in centimeters, of the rectangle?

A. $10 + 10k$ B. $5 + 5k$

C. $8k + 2$ D. $4 + 16k$

3. A triangle has side lengths of $(2d - 8f)$ centimeters, $(4d - 3g)$ centimeters, and $(9g - 8f)$ centimeters. Which expression represents the perimeter, in centimeters, of the triangle?

A. $-19fg + 15dg$ B. $f + 6d - 11g$

C. $dg + fg - 6df$ D. $-16f + 6d + 6g$

4. Which expression is equivalent to $-4a + a - 7a$?

A. $a - 11$ B. $-10a$

C. $-12a$ D. $1 - 11a$

5. A triangle has side lengths of $(2f - 7)$ centimeters, $(5f - 8)$ centimeters, and $(9g + 2)$ centimeters. Which expression represents the perimeter, in centimeters, of the triangle?

A. $7f + 11g - 15$ B. $7f - 13 + 9g$

C. $11g - 8f$ D. $11g - 5f - 3$

6. Combine like terms.
$$-6y + 1 - x^3 - 3x^3 + 1 + 2y - 3x^3$$

7. Combine like terms.

$$2x + 7 + 6x^3 - 1 + 3 - 6x - 4x$$

8. Combine like terms.

$$2 - 3x + 7x - x + 2x^2 + 7 - 5$$

9. Combine like terms.

$$-2x - 2 - y^3 - 5x + 7y^3 - 3 - x$$

10. Combine like terms.

$$-6y + y^2 + 3 - 4y^2 - 7 + 1 - 4y$$