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Distributive Property and combining like terms worksheet-3

- 1) Fill in the blank in the multiplication of $(3 - x)$ and $(-x - 2)$.

$$(3 - x) \times (x - 2) = -x^2 + \underline{\hspace{1cm}}x + 6$$

- 2) Find the value of " $y(x - 2) - x(y - 2)$ " by using the distributive property.

- 3) Find the value of $(y - 4x)(y + x)$ when $x = -1$ and $y = 1$.

- 4) Mia is running with a speed of ' $(x + 6)$ ' miles per hour. Find the distance travelled by her in $(x - 2)$ hours.



- 5) Solve for 'x': $3 \times (2x + 3) + 1 \times (x - 2) = 14$

- 6) Fill in the blanks given below after multiplying and combining the like terms.

a) $(5 + x) \times (x - 2) = x^2 + \underline{\hspace{1cm}}x - 10$

b) $(4x - 1) \times (2x - 3) = x^2 + \underline{\hspace{1cm}}x + 3$

- 7) Which of the following given below is equal to: $(1 - 4x) \times (-4x + 2)$

a) $-12x - 16x^2 - 2$

b) $12x + 16x^2 + 2$

c) $-12x + 16x^2 + 2$

d) $12x - 16x^2 - 2$

8) Use the distributive property of multiplication to find the value of

$$(3 - 5) \times (-2 + 2)$$

9) Solve: $(2x + 7) \times (2x - 7)$

10) Multiply $(-2y + x)$ with the expression $(-2x - y)$ and combine the like terms.



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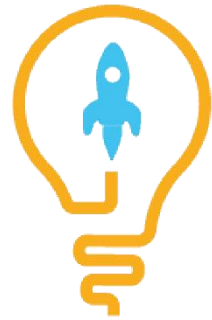
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**ANSWERS**

1)	5
2)	$2x - 2y$
3)	0
4)	$x^2 + 4x - 12$
5)	$x = 1$
6)	a) 3 b) -14
7)	c) $-12x + 16x^2 + 2$
8)	0
9)	$4x^2 - 49$
10)	$2y^2 - 2x^2 + 3xy$

FUN FACT

1. Distributive property of multiplication is used to multiply the two polynomials.
2. The multiplication of two negative numbers is always positive.
3. The product of any number and one is equal to the number itself.

