## Exercises – Factoring Using the Distributive Property

1

$$1+2x-x(1+2x)$$

Which of the following is equivalent to the expression shown above?

- A)  $(1-2x)^2$
- B) (1+2x)(1-x)
- C) -x(1+2x)
- D) x(1-2x)

2

What is the value of x, if rx + sx = 3 and  $r + s = \frac{1}{3}$ ?

- A) 1
- B) 3
- C) 9
- D) 27

3

$$2ax - 6a - 3x + 9$$

Which of the following is equivalent to the expression shown above?

- A) (2a-1)(x-9)
- B) (2a-3)(2x-3)
- C) (a-3)(2x-3)
- D) (2a-3)(x-3)

4

$$mn-5n-m+5$$

Which of the following is equivalent to the expression shown above?

- A) (m-5)(n-1)
- B) (m-1)(n-5)
- C) (m+5)(n+1)
- D) (m-5)(5n-1)

5

$$7y^2 - 21xy - 2y + 6x$$

Which of the following is equivalent to the expression shown above?

- A) (7y-3)(y-2x)
- B) (7y-2)(2y-3x)
- C) (7y-2)(y-3x)
- D) (7y+2)(2y-3x)

6

$$x - 2y + 3z - 2wx + 4wy - 6wz$$

Which of the following is equivalent to the expression shown above?

- A) (1+2w)(x+2y-3z)
- B) (1-2w)(x-2y+3z)
- C) (1+2w)(x-2y-3z)
- D) (1-2w)(x-y-3z)