

Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and select the correct answer.**

1. Factor the polynomial completely.

$$6xz + 7yz + 6x + 7y$$

- A. $(z + 1)(6x + 7y)$
- B. $z(6x + 7y)$
- C. $2z(6x + 7y)$
- D. $(6x + 7y)(6z + 7z)$

2. Factor the polynomial completely.

$$18x^2 - 15x - 18$$

- A. $3(6x + 2)(x - 3)$
- B. $(x - 9)(18x + 1)$
- C. $(6x + 9)(3x - 2)$
- D. $3(2x - 3)(3x + 2)$

3. Factor completely.

$$7x^2 + 20x - 3$$

- A. $(7x + 3)(x - 1)$
- B. $(7x - 1)(x + 3)$
- C. $(7x - 3)(x + 1)$
- D. $(7x + 1)(x - 3)$

4. Factor the polynomial completely.

$$x^3 + 9x^2 + 18x$$

- A. $x = 0, x = -6, x = -3$
- B. $(x)(x + 3)(x + 6)$
- C. $(x - 6)(x - 3)$
- D. $x = 3, x = 6, x = -1$