POLYNOMIAL FACTORING AND SYSTEMS OF EQUATIONS - PRACTICE TEST | NEW BRUNSWICK PRE-CALCULUS 110 · UNIT D · 10 QUESTIONS

# Polynomial Factoring and Systems of Equations — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The difference of squares $x^2 - 49$ factors as $x - ax + a$, where $a =$**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **The system $x + y = 10$ and $x - y = 2$ has solution $x =$**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The system $x + y = 3$ and $x - y = 1$ has solution $x =$**

ANSWER _____

Understand It with Pulse | Flag a mistake

**4** **Factoring $2x^2 + 6x$ gives**

- **A** $2(x + 3)$
- **B** $2x(x + 3)$
- **C** $x(2x + 6)$
- **D** $2x^2(x + 3)$

Understand It with Pulse | Flag a mistake

**5** **The degree of $5x^4 + x$ is**

- **A** 5
- **B** 1
- **C** 4
- **D** 9

Understand It with Pulse | Flag a mistake

6 **A system of two linear equations with the same line has**

- A no solution
- B one solution
- C two solutions
- D infinitely many solutions

Understand It with Pulse | Flag a mistake

7 **The product of x - 1 and x + 4 evaluated at x = 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The system x + y = 12 and x - y = 4 has solution y =**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The quadratic with factors x minus 7 and x minus 10 has its larger root equal to**

ANSWER

Understand It with Pulse | Flag a mistake

10 **The greatest common factor of 15x and 25 is**

ANSWER

Understand It with Pulse | Flag a mistake

## ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | 7 | **5.** | C | **9.** | 10 |
| **2.** | 6 | **6.** | D | **10.** | 5 |
| **3.** | 2 | **7.** | 6 | | |
| **4.** | B | **8.** | 4 | | |

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