

Unit # 5 - Practice Test
Polynomials & Factoring

Part I: Multiple Choice (4 points each)

Directions: Use your knowledge of factoring to answer the following questions below.

1 1) Which of the following expressions is a *trinomial*?

- Ⓐ Ⓑ Ⓒ Ⓓ
(1) $4x^2 + 11x + 6$ (3) $56y^3 + 2y^2 + y - 4$
(2) $c^2 - 64$ (4) $56a$
Ⓐ Ⓑ Ⓒ Ⓓ

2 2) Which of the following expressions is a *binomial*?

- Ⓐ Ⓑ Ⓒ Ⓓ
(1) $4x^2 + 11x + 6$ (3) $56y^3 + 2y^2 + y - 4$
(2) $c^2 - 64$ (4) $56a$
Ⓐ Ⓑ Ⓒ Ⓓ

3 3) Expressed in factored form, the binomial $2x^2y - 4xy^3$ is equivalent to: $2x^2y - 4xy^3$

- (1) $2xy(x - 2y)$ (3) $2xy(x - 2y^2)$
(2) $2xy(xy - 4y)$ (4) $2x^2y^3(y - 2)$

$$\boxed{2xy(x - 2y^2)}$$

GCF

3 4) What is the GCF of $9xy - 54x^2y^3$?

- (1) 9 (3) $9xy$
(2) xy (4) $6xy$

$$9xy - 54x^2y^3$$

$$\boxed{9xy(1 - 6xy^2)}$$

GCF

2 5) One of the factors of $x^2 - 64$ is:

- (1) $x + 4$ (3) $2x$
(2) $x - 8$ (4) $2x - 8$

$$x^2 - 64 = \boxed{(x + 8)(x - 8)}$$

Factors of $x^2 - 64$

2 6) A common factor of $x^2 + 7x + 10$ and $x^2 - 25$ is:

- (1) $x - 5$ (3) $x + 2$
(2) $x + 5$ (4) x^2

$$x^2 + 7x + 10 = \boxed{(x + 2)(x + 5)}$$

$$x^2 - 25 = \boxed{(x + 5)(x - 5)}$$

Common Factor

2 7) One of the factors of $25x^2 - 9$ is $5x - 3$. Find the other factor.

- (1) $25x^2 - 9$ (3) $5x - 3$
(2) $5x + 3$ (4) x^2

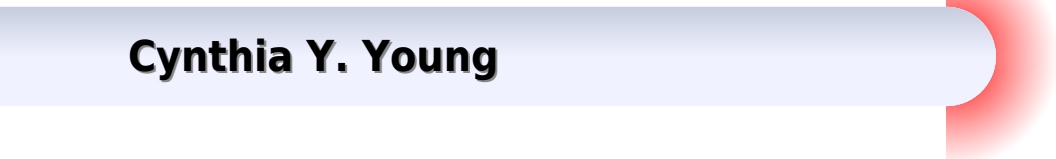
$$25x^2 - 9$$

$$\boxed{(5x + 3)(5x - 3)}$$

"Other Factor" Other Factor

Factoring Polynomials Test And Answers

Cynthia Y. Young



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