



Republic of the Philippines
Department of Education
REGION IV - A CALABARZON
SCHOOLS DIVISION OF CALAMBA CITY
MAKILING INTEGRATED SCHOOL
MAKILING, CALAMBA CITY, LAGUNA

A. Factor the following polynomials. Match Column A to Column B.

- | COLUMN A | COLUMN B |
|---------------------------|------------------------------|
| 1. $9x^2 - 25$ | a. $(4xy)(2x^2y)$ |
| 2. $8y^3 - 27$ | b. $(t - 5)(7t - 3)$ |
| 3. $9x^4 - 6x^2y + y^2$ | c. $(4y^2 + 6y + 9)(2y - 3)$ |
| 4. $8x^3y^2$ | d. $(3x - 5)(3x + 5)$ |
| 5. $7t(t - 5) + 3(5 - t)$ | e. $(3x^2 - y)^2$ |

B. Read each item carefully. Write CAPITAL LETTER of the best answer in the blank provided for each item.

_____ 1. If a and b are both negative integers, which of the following numbers is the largest?

- | | |
|----------------|----------------|
| A. ab | C. $(a + b)^2$ |
| B. $a^2 + b^2$ | D. $(a - b)^2$ |

_____ 2. What will you multiply to $(5x + 1)$ to make a perfect square trinomial?

- | | |
|---------------|----------------------|
| A. $(5x - 1)$ | C. $25x^2 + 10x + 1$ |
| B. $(5x + 1)$ | D. $25x^2 - 10x + 1$ |

_____ 3. Which of the following is a sum of two cubes?

- | | |
|---------------|--------------|
| A. $m^3 + 9$ | C. $m^6 + 9$ |
| B. $m^3 - 27$ | D. $m^9 + 8$ |

_____ 4. What is the greatest common factor in the expression $28x^8y^4z^6 + 16x^3y^4z^5$?

- | | |
|-----------------|-----------------|
| A. $8x^3y^4z^5$ | C. $4x^4y^4z^3$ |
| B. $4x^3y^4z^5$ | D. $8x^4y^4z^3$ |

_____ 5. Factor $3m(m - 4) - (m - 4)$.

- | | |
|----------------------|------------------------|
| A. $(m - 4)(3m + 1)$ | C. $(m - 4)^2(3m - 1)$ |
| B. $(3m - 1)(m - 4)$ | D. $3m(m - 4)^2$ |

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