

Orientation Exercises 6

1. $(x-4)(x+4) = x^2 - 4x + 4x - 16$
- A. $x^2 + 16$
 B. $x^2 - 16$
 C. $x^2 - 8x - 16$
 D. $x^2 - 8$
 E. $x^2 - 4x - 8$

2. $(2x^2 + 4 - 5x) - (-8x + 2 + x^2) = 3x^2 + 3x + 2$
- A. a monomial
 B. a binomial
 C. a trinomial
 D. a constant
 E. a cubic

3. $(4x - 5) - (5x^2 + 2x - 3) = -5x^2 + 2x - 2$
- A. $-5x^2 - 2x - 2$
 B. $5x^2 + 2x - 2$
 C. $-5x^2 - 2x + 2$
 D. $5x^2 - 2x - 2$
 E. $-5x^2 + 2x - 2$

4. Which of the following polynomials has the following descriptors?

- I. It is a trinomial.
 II. It has degree three.
 III. It has a lead coefficient of 2.
 IV. It has a constant term of -4.

- A. $2x^3 + x - 4$
 B. ~~$3x^2 + 2x + 4$~~
 C. ~~$3x^3 + 2x^2 - 4x$~~
 D. ~~$2x^2 + 3x + 4$~~
 E. ~~$2x^3$~~

5. Which of the following best describes $(x+6)(x-6)$?

- A. ~~The product of a binomial and a trinomial~~
 B. ~~The sum of two squares~~
 C. ~~The product of a monomial and a binomial~~
 D. The difference of two squares
 E. ~~The quotient of two binomials~~

6. $(x+2y-3z) - (x-5y+4z) = 7y - 7z$
- A. $7x - 7y$
 B. $7x - 7z$
 C. $7y - 7z$
 D. $7x - 7y - 7z$
 E. $7x + 7y - 7z$

7. $-5x^3$ is a:

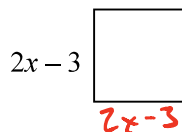
- A. monomial
 B. binomial
 C. trinomial
 D. constant
 E. quadratic

8. Factor completely: $6x^2 - 11x - 10$

- A. $(6x - 10)(x + 1)$
 B. $(2x - 5)(3x + 2)$
 C. $(6x - 5)(x + 2)$
 D. $(2x - 10)(3x + 1)$
 E. $(6x - 2)(x + 5)$
- $M = -60$
 $A = -11$
 $N = -15.4$
- $(6x-15)(6x+4)$
 $\frac{6}{6}$
 ~~$(2x-5)(3x+2)$~~
 $\frac{6}{6}$

9. $(10x^2 - 9 + 7x) - (3x - 4 + 2x^2) =$

- A. $8x^2 - 4x + 5$
 B. $7x^2 + 3x - 5$
 C. $3x^2 - 7x + 5$
 D. $8x^2 + 4x - 5$
 E. $7x^2 + 4x + 2$



10. A square has each side equal to $2x - 3$. The expression that will calculate its area is:

- A. $2x^2 + 6x + 9$
 B. $4x^2 + 9$
 C. $4x^2 + x - 6$
 D. $4x^2 - 6x + 9$
 E. $4x^2 - 12x + 9$

$4x^2 - 6x - 6x + 9$