

8-2/8-3 Correcting Errors Worksheet – Writing assignment

Mr. Houle and Mrs. Bice were working on factoring polynomials and though they usually solved them accurately, they were having some difficulty with this worksheet. Find and explain the error they made in solving the original problem. Determine the correct answer to the problem and describe their error *using complete sentences*. Every problem solved has an error of some type.

1. $x^2 - 3x - 10 = (x+5)(x-2)$

2. $12x^2 - 14x + 8 = 2(6x^2 - 7x + 8)$

3. $x^2 - 5x + 6 = (x-6)(x+1)$

4. $x^2 + 8x - 9 = (x-8)(x-1)$

5. $8x^4 - 4x^3 + 16x = 2x(4x^3 + 2x^2 + 8)$

6. $x^2 + 13x - 14 = (x-13)(x-1)$

7. $9x^2 + 18 = 3(3x^2 + 6)$

8. $x^2 - 13x - 30 = (x-3)(x-10)$

$$9. \quad x^2 - 10x - 24 = (x - 6)(x - 4)$$

$$10. \quad x^2 + 5x - 6 = (x + 3)(x + 2)$$

$$11. \quad x^2 - 3x - 88 = (x + 11)(x - 8)$$

$$12. \quad 6x^5 - 7x^4 - 3x^2 = 1(6x^5 - 7x^4 - 3x^2)$$

$$13. \quad x^2 - 10x + 25 = (x - 5)(x + 5)$$

$$14. \quad 48x^3 - 24x^2 + 8x = 8x(6x^2 - 3x)$$

$$15. \quad x^2 - 5x - 6 = (x - 2)(x - 3)$$

$$16. \quad x^2 + 4x - 45 = (x - 9)(x + 5)$$