

Factoring Algebraic Expressions Using Common Factoring

Answer Key

Factor out the greatest common factor in each of the following expressions.

1. $16x^5 - 2x^3 = 2x^3(8x^2 - 1)$

2. $54a^4b^3 - 36a^3b^3 = 18a^3b^3(3a - 2)$

3. $49x^3 - 14x^2 = 7x^2(7x - 2)$

4. $17k^3 - 23k^2 = k^2(17k - 23)$

5. $18x^3 - 9y^3 = 9(2x^3 - y^3)$

6. $10,000p^{40} - 1,000p^{39} = 1,000p^{39}(10p - 1)$

7. $abcd - abc + bc = bc(ad - a + 1)$

8. $6n^3 - 18n^4 = 6n^3(1 - 3n)$