

Dividing Polynomials Bell Work

Answer:

Divide the following polynomials by monomials.

1. $3a^4 + 12a^3 - 18a^2 + 12a$ by $3a$

2. $15x^3 - 10x^2 + 5x$ by $5x$

3. $24b^3 - 12b^2 + 6b - 4$ by 2

4. $25c^3 + 15c^2 - 50c + 10$ by 5

Divide the polynomials by binomials.

5. $27x^3 + 8$ by $3x + 2$

6. $x^4 - 16$ by $x - 2$

7. $6a^2 - 7ab + b^2$ by $2a + b$

8. $12x^3 - 5x^2 - 3x - 5$ by $4x - 3$

Divide the following polynomials using synthetic division.

9. $x^3 - 7x - 4$ by $x + 2$

10. $3x^3 + 11x^2 - 5x$ by $x + 4$