

Math 3 Advanced

6.5 Practice Part 1 with KEY

Simplify a polynomial expression using long division.

1.  $(3x^3 - 17x^2 + 13x + 4) \div (3x - 2)$

2.  $(6x^3 - 28x^2 + 19x + 3) \div (3x - 2)$

3.  $(2a^3 - 7a^2 - 5a + 17) \div (2a + 3)$

4.  $(2b^3 - 3b^2 - 8b + 4) \div (2b + 1)$

5.  $(2x^3 - 3x^2 - 11x + 6) \div (2x - 1)$

6.  $(2a^3 + 7a^2 - 5a - 4) \div (2a + 1)$

7.  $(10c^3 + c^2 - 7c + 2) \div (5c - 2)$

8.  $(2x^3 - 9x^2 + 17x + 12) \div (2x - 3)$

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**Answer List**

- |                             |                              |
|-----------------------------|------------------------------|
| 1. $x^2 - 5x + 1$ , $R = 6$ | 2. $2x^2 - 8x + 1$ , $R = 5$ |
| 3. $a^2 - 5a + 5$ , $R = 2$ | 4. $b^2 - 2b - 3$ , $R = 7$  |
| 5. $x^2 - x - 6$            | 6. $a^2 + 3a - 4$            |
| 7. $2c^2 + c - 1$           | 8. $x^2 - 3x + 4$ , $R = 24$ |