1. Divide $3x^3 + 3x - 3$ by $x - 2$.

[A] $3x^2 + 9x + 15 + \frac{30}{x - 2}$    [B] $3x^2 + 9x - 18 - \frac{39}{x - 2}$
[C] $3x^2 + 6x - 9 - \frac{18}{x - 2}$    [D] $3x^2 + 6x + 15 + \frac{27}{x - 2}$

2. Divide $2x^3 - 2x + 6$ by $x + 3$.

[A] $2x^2 - 6x - 20 + \frac{64}{x + 3}$    [B] $2x^2 - 8x + 30 - \frac{90}{x + 3}$
[C] $2x^2 - 6x + 16 - \frac{42}{x + 3}$    [D] $2x^2 - 8x - 24 + \frac{78}{x + 3}$

3. Divide $3x^3 + x - 4$ by $x + 2$.

[A] $3x^2 - 6x - 11 + \frac{19}{x + 2}$    [B] $3x^2 - 5x + 6 - \frac{12}{x + 2}$
[C] $3x^2 - 6x + 13 - \frac{30}{x + 2}$    [D] $3x^2 - 5x - 10 + \frac{16}{x + 2}$

4. Divide $2x^3 - 5x + 7$ by $x - 3$.

[A] $2x^2 + x + 10 + \frac{30}{x - 3}$    [B] $2x^2 + 6x + 13 + \frac{46}{x - 3}$
[C] $2x^2 + 6x - 23 - \frac{67}{x - 3}$    [D] $2x^2 + x - 3 - \frac{2}{x - 3}$

5. Divide $2x^3 + x - 5$ by $x - 2$.

[A] $2x^2 + 5x + 5 + \frac{10}{x - 2}$    [B] $2x^2 + 4x - 7 - \frac{18}{x - 2}$
[C] $2x^2 + 5x - 10 - \frac{25}{x - 2}$    [D] $2x^2 + 4x + 9 + \frac{13}{x - 2}$
6. Divide \(-3x^3 + 2x - 9\) by \(x - 3\).

[A] \(-3x^2 + 9x - 30 - \frac{90}{x - 3}\)

[B] \(-3x^2 - 9x - 25 - \frac{84}{x - 3}\)

[C] \(-3x^2 - 7x + 21 + \frac{54}{x - 3}\)

[D] \(-3x^2 - 9x + 29 + \frac{80}{x - 3}\)

7. Divide \(-2x^3 + 2x + 9\) by \(x - 3\).

[A] \(-2x^2 - 4x + 12 + \frac{45}{x - 3}\)

[B] \(-2x^2 - 4x - 3 - \frac{9}{x - 3}\)

[C] \(-2x^2 - 6x - 16 - \frac{39}{x - 3}\)

[D] \(-2x^2 - 6x + 20 + \frac{71}{x - 3}\)

8. Divide \(x^3 + 3x - 1\) by \(x + 2\).

[A] \(x^2 + x - 3 + \frac{6}{x + 2}\)

[B] \(x^2 + x + 2 - \frac{5}{x + 2}\)

[C] \(x^2 - 2x - 1 + \frac{4}{x + 2}\)

[D] \(x^2 - 2x + 7 - \frac{15}{x + 2}\)

9. Divide \(x^3 - x + 8\) by \(x - 3\).

[A] \(x^2 + 3x - 10 - \frac{23}{x - 3}\)

[B] \(x^2 + 2x - 6 - \frac{10}{x - 3}\)

[C] \(x^2 + 3x + 8 + \frac{32}{x - 3}\)

[D] \(x^2 + 2x + 14 + \frac{42}{x - 3}\)

10. Compare the quantity in Column A with the quantity in Column B.
the quotient of \((x^3 + x^2 + 7x + 26) \div (x - 2)\)

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
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</thead>
<tbody>
<tr>
<td>the coefficient of the (x^2) term</td>
<td>the constant term</td>
</tr>
</tbody>
</table>

[A] The quantity in Column A is greater.  
[B] The quantity in Column B is greater.  
[C] The two quantities are equal.  
[D] The relationship cannot be determined on the basis of the information supplied.
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<td>1</td>
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<td>10</td>
<td>B</td>
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