

**LESSON 85 ANSWERS** .....

1.  $\frac{6}{3} \cdot x^{5-1} = 2x^4$       2.  $\frac{12}{-2} \cdot x^{6-2} = -6x^4$

3.  $\frac{15x^2}{5x} - \frac{10x}{5x} = 3x - 2$       4.  $\frac{9x^4}{x^2} + \frac{4x^2}{x^2} = 9x^2 + 4$

5.  $\frac{2x^3}{-2x} - \frac{8x^2}{-2x} + \frac{6x}{-2x} = -x^2 + 4x - 3$

6.  $\frac{4x^6}{4x^3} - \frac{16x^5}{4x^3} + \frac{8x^4}{4x^3} = x^3 - 4x^2 + 2x$

<p>7.</p> $x + 3 \overline{) \begin{array}{r} x + 2 \\ x^2 + 5x + 6 \\ \underline{x^2 + 3x} \phantom{+ 6} \\ 2x + 6 \\ \underline{2x + 6} \\ 0 \end{array}}$ <p>Answer: <math>x + 2</math></p>	<p>8.</p> $x - 1 \overline{) \begin{array}{r} x - 1 \\ x^2 - 2x + 1 \\ \underline{x^2 - x} \phantom{+ 1} \\ -x + 1 \\ \underline{-x + 1} \\ 0 \end{array}}$ <p>Answer: <math>x - 1</math></p>
--	---

<p>9.</p> $x + 2 \overline{) \begin{array}{r} x + 5 \\ x^2 + 7x + 10 \\ \underline{x^2 + 2x} \phantom{+ 10} \\ 5x + 10 \\ \underline{5x + 10} \\ 0 \end{array}}$ <p>Answer: <math>x + 5</math></p>	<p>10.</p> $x - 4 \overline{) \begin{array}{r} x + 7 \\ x^2 + 3x - 28 \\ \underline{x^2 - 4x} \phantom{- 28} \\ 7x - 28 \\ \underline{7x - 28} \\ 0 \end{array}}$ <p>Answer: <math>x + 7</math></p>
--	---

<p>11.</p> $x - 4 \overline{) \begin{array}{r} x - 4 \\ x^2 - 8x + 16 \\ \underline{x^2 - 4x} \phantom{+ 16} \\ -4x + 16 \\ \underline{-4x + 16} \\ 0 \end{array}}$ <p>Answer: <math>x - 4</math></p>	<p>12.</p> $x - 6 \overline{) \begin{array}{r} x - 2 \\ x^2 - 8x + 12 \\ \underline{x^2 - 6x} \phantom{+ 12} \\ -2x + 12 \\ \underline{-2x + 12} \\ 0 \end{array}}$ <p>Answer: <math>x - 2</math></p>
---	---

<p>13.</p> $x - 3 \overline{) \begin{array}{r} 3x + 1 \\ 3x^2 - 8x - 3 \\ \underline{3x^2 - 9x} \phantom{- 3} \\ x - 3 \\ \underline{x - 3} \\ 0 \end{array}}$ <p>Answer: <math>3x + 1</math></p>	<p>14.</p> $x + 2 \overline{) \begin{array}{r} 2x + 1 \\ 2x^2 + 5x + 2 \\ \underline{2x^2 + 4x} \phantom{+ 2} \\ x + 2 \\ \underline{x + 2} \\ 0 \end{array}}$ <p>Answer: <math>2x + 1</math></p>
---	---

<p>15.</p> $x + 1 \overline{) \begin{array}{r} 5x + 4 \\ 5x^2 + 9x + 4 \\ \underline{5x^2 + 5x} \phantom{+ 4} \\ 4x + 4 \\ \underline{4x + 4} \\ 0 \end{array}}$ <p>Answer: <math>5x + 4</math></p>	<p>16.</p> $x + 5 \overline{) \begin{array}{r} 4x - 1 \\ 4x^2 + 19x - 5 \\ \underline{4x^2 + 20x} \phantom{- 5} \\ -x - 5 \\ \underline{-x - 5} \\ 0 \end{array}}$ <p>Answer: <math>4x - 1</math></p>
---	---

<p>17.</p> $4x + 1 \overline{) \begin{array}{r} x - 2 \\ 4x^2 - 7x - 2 \\ \underline{4x^2 + x} \phantom{- 2} \\ -8x - 2 \\ \underline{-8x - 2} \\ 0 \end{array}}$ <p>Answer: <math>x - 2</math></p>	<p>18.</p> $3x + 2 \overline{) \begin{array}{r} x + 4 \\ 3x^2 + 14x + 8 \\ \underline{3x^2 + 2x} \phantom{+ 8} \\ 12x + 8 \\ \underline{12x + 8} \\ 0 \end{array}}$ <p>Answer: <math>x + 4</math></p>
---	---

<p>19.</p> $2x - 1 \overline{) \begin{array}{r} 4x + 3 \\ 8x^2 + 2x - 3 \\ \underline{8x^2 - 4x} \phantom{- 3} \\ 6x - 3 \\ \underline{6x - 3} \\ 0 \end{array}}$ <p>Answer: <math>4x + 3</math></p>	<p>20.</p> $5x + 3 \overline{) \begin{array}{r} 2x - 3 \\ 10x^2 - 9x - 9 \\ \underline{10x^2 + 6x} \phantom{- 9} \\ -15x - 9 \\ \underline{-15x - 9} \\ 0 \end{array}}$ <p>Answer: <math>2x - 3</math></p>
--	--