Division of Algebraic Expressions Ex 8.4 Q9

Answer :

$$
\begin{array}{r}
3x^2+5x-7 \\
-8x+3\overline{)\,-24x^3-31x^2+71x-21} \\
\underline{-24x^3+9x^2} \\
\quad -40x^2+71x-21 \\
\quad \underline{-40x^2+15x} \\
\qquad\qquad 56x-21 \\
\qquad\qquad \underline{56x-21} \\
\qquad\qquad\quad 0
\end{array}
$$

Division of Algebraic Expressions Ex 8.4 Q10

Answer :

$$
\begin{array}{r}
3y^2 + 3y + 2 \\
y^2 - 2y \overline{)\,3y^4 + 3y^3 - 4y^2 - 4y} \\
\underline{3y^4 - 6y^3} \\
\quad - \quad + \\
\hline
3y^3 - 4y^2 - 4y \\
\underline{3y^3 - 6y^2} \\
\quad - \quad + \\
\hline
2y^2 - 4y \\
\underline{2y^2 - 4y} \\
\quad - \quad + \\
\hline
0 \\
\hline
\end{array}
$$

Division of Algebraic Expressions Ex 8.4 Q11

Answer :

$$
\begin{array}{r}
y^2 + 5y + 3 \\
2y^3 + 1 \overline{)\,2y^5 + 10y^4 + 6y^3 + y^2 + 5y + 3} \\
\underline{2y^5 \qquad\qquad + y^2} \\
- \qquad\qquad - \\
\hline
10y^4 + 6y^3 + 5y + 3 \\
\underline{10y^4 \qquad + 5y} \\
- \qquad\quad - \\
\hline
6y^3 + 3 \\
\underline{6y^3 + 3} \\
- \quad - \\
\hline
0 \\
\hline
\end{array}
$$

Division of Algebraic Expressions Ex 8.4 Q12

Answer :

$$
\begin{array}{r}
x^2 - 3x + 4 \\
x^2 + x + 1 \overline{)\, x^4 - 2x^3 + 2x^2 + x + 4} \\
\underline{x^4 + x^3 + x^2} \\
\quad - 3x^3 + x^2 + x + 4 \\
\quad \underline{- 3x^3 - 3x^2 - 3x} \\
\qquad\qquad 4x^2 + 4x + 4 \\
\qquad\qquad \underline{4x^2 + 4x + 4} \\
\qquad\qquad\quad 0
\end{array}
$$

********** END **********