Division of Algebraic Expressions Ex 8.4 Q13

Answer :

$$
\begin{array}{r}
m-2 \\
m^2-12m+13\overline{)\,m^3-14m^2+37m-26} \\
\underline{\;m^3-12m^2+13m\;} \\
\quad -2m^2+24m-26 \\
\quad \underline{-2m^2+24m-26} \\
\quad\quad 0
\end{array}
$$

Division of Algebraic Expressions Ex 8.4 Q14

Answer :

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

Division of Algebraic Expressions Ex 8.4 Q15

Answer :

$$
\begin{array}{r}
x^2+x+1 \\
x^3+1\overline{)\,x^5+x^4+x^3+x^2+x+1} \\
\underline{x^5\qquad\quad+x^2} \\
\quad x^4+x^3+x+1 \\
\quad\underline{x^4\qquad+x} \\
\qquad\quad x^3+1 \\
\qquad\quad\underline{x^3+1} \\
\qquad\qquad 0
\end{array}
$$

Division of Algebraic Expressions Ex 8.4 Q16

Answer :

$$
\begin{array}{r}
7x^2+x+5 \\
2x-1\overline{)\,14x^3-5x^2+9x-1} \\
\underline{14x^3-7x^2} \\
\quad 2x^2+9x-1 \\
\quad\underline{2x^2-x} \\
\qquad\quad 10x-1 \\
\qquad\quad\underline{10x-5} \\
\qquad\qquad\quad 4
\end{array}
$$

Quotient = 7x2 + x + 5Remainder = 4

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