

Division of Algebraic Expressions Ex 8.4 Q13

Answer:

$$m-2$$

$$m^{2}-12m+13) m^{3}-14m^{2}+37m-26$$

$$m^{3}-12m^{2}+13m$$

$$-+--$$

$$-2m^{2}+24m-26$$

$$-2m^{2}+24m-26$$

$$+--+$$

$$0$$

Division of Algebraic Expressions Ex 8.4 Q14

Answer:

$$\begin{array}{r}
 x^{2} - x + 1 \\
 \hline
 x^{2} + x + 1 \\
 \hline
 x^{4} + x^{2} + 1 \\
 \hline
 x^{4} + x^{2} + x^{3} \\
 \hline
 -x^{3} + 1 \\
 -x^{3} - x^{2} - x \\
 \hline
 + + + \\
 \hline
 x^{2} + x + 1 \\
 \hline
 x^{2} + x + 1 \\
 \hline
 -x^{2} - x \\
 \hline
 x^{2} + x + 1 \\
 \hline
 -x^{2} - x \\
 \hline
 x^{2} + x + 1
 \hline
 -x^{2} - x \\
 \hline
 x^{2} + x - 1
 x^{2} + x - 1
 \hline
 x^{2} + x - 1
 x^{2} + x - 1$$

Answer:

Division of Algebraic Expressions Ex 8.4 Q16

Answer:

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

Quotient = 7x2 + x + 5Remainder = 4

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