

Question 5

Which of the suggested solutions is the correct one for determining $(4x^3 + x^2 - 26x + 21) \div (x + 3)$?

A.
$$\begin{array}{r|rrrr} 3 & 4 & 1 & -26 & 21 \\ & & 12 & 39 & 39 \\ \hline & 4 & 13 & 13 & 60 \end{array}$$

B.
$$\begin{array}{r|rrrr} 1 & 4 & 1 & -26 & 21 \\ & & 4 & 5 & -21 \\ \hline & 4 & 5 & -21 & 0 \end{array}$$

C.
$$\begin{array}{r|rrrr} 1 & 4 & 1 & -26 & 21 \\ & & 4 & -3 & -23 \\ \hline & 4 & -3 & -23 & -2 \end{array}$$

D.
$$\begin{array}{r|rrrr} 3 & 4 & 1 & -26 & 21 \\ & & 12 & -33 & 21 \\ \hline & 4 & -11 & 7 & 0 \end{array}$$

Solution

The correct answer is D.