

Step 6: Add the numbers in the second column and write the result below

$$\begin{array}{r|rrrr} 1 & 1 & 2 & 3 & -6 \\ & \downarrow & 1 & & \\ \hline & 1 & 3 & & \end{array}$$

PAGE
3

Step 7: Multiply the result with the number in the division box, and write down the number in the next column. Add the numbers in the in the column and write the result below the line.

$$\begin{array}{r|rrrr} 1 & 1 & 2 & 3 & -6 \\ & \downarrow & 1 & 3 & \\ \hline & 1 & 3 & 6 & \end{array}$$

Step 8: Continue in the same way until the bottom row is complete

$$\begin{array}{r|rrrr} 1 & 1 & 2 & 3 & -6 \\ & \downarrow & 1 & 3 & 6 \\ \hline & 1 & 3 & 6 & 0 \end{array}$$

Step 9: Write the final answer. The number on the right of the bottom row is the remainder and must be written as a fraction. The next number on the left is the constant, the next the co-efficient of x , and the last one is the co-efficient of x^2

\therefore Final answer: $x^2 + 3x + 6$ remainder $\frac{0}{x-1}$
↑
Quotient