

Step 7: (Repeat of step 3). Subtract $3x^2 - 3x$ from the dividend.

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$$\begin{array}{r}
 x^2 + 3x \\
 x-1 \overline{) x^3 + 2x^2 + 3x - 6} \\
 \underline{-x^3 + x^2} \quad \downarrow \\
 \cdot \quad 3x^2 + 3x \\
 \underline{-3x^2 + 3x} \quad \downarrow \\
 \cdot \quad \quad \quad 6x - 6
 \end{array}$$

Step 8: (Repeat of Step 4). Bring down -6 to the level of the answer in Step 7

$$\begin{array}{r}
 x^2 + 3x \\
 x-1 \overline{) x^3 + 2x^2 + 3x - 6} \\
 \underline{-x^3 + x^2} \quad \downarrow \\
 \cdot \quad 3x^2 + 3x \\
 \underline{-3x^2 + 3x} \quad \downarrow \\
 \cdot \quad \quad \quad 6x - 6
 \end{array}$$

Step 9: Divide $6x$ by x . Write answer above

$$\begin{array}{r}
 3x \\
 x^2 + 3x + 6 \\
 x-1 \overline{) x^3 + 2x^2 + 3x - 6} \\
 \underline{-x^3 + x^2} \quad \downarrow \\
 \cdot \quad 3x^2 + 3x \\
 \underline{-3x^2 + 3x} \quad \downarrow \\
 \cdot \quad \quad \quad 6x - 6
 \end{array}$$

Step 10: Multiply 6 by $x-1$ (divisor) and write the answer below $6x-6$.

$$\begin{array}{r}
 x^2 + 3x + 6 \\
 x-1 \overline{) x^3 + 2x^2 + 3x - 6} \\
 \underline{-x^3 + x^2} \quad \downarrow \\
 \quad 3x^2 + 3x \\
 \underline{-3x^2 + 3x} \quad \downarrow \\
 \quad \quad \quad 6x - 6 \\
 \quad \quad \quad \underline{6x - 6}
 \end{array}$$