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Name : Shrutangi Vaidya Date : 28/8/17  
 Class : 8 Board : CBSE Batch : \_\_\_\_\_ Course Code : Safal  
 Subject : Math Roll No. : \_\_\_\_\_ Test ID : CT-3M  
 Marks Obtained : 47.50 Max. Marks : 50  
 Centre : Vasna Invigilator Sign. : [Signature]

## \* Section - D

17.  $p(x) = 6x^5 + 5x^4 + 11x^3 - 3x^2 + x + 5$

$f(x) = 3x^2 - 2x + 4$

To find out what must be added to  $p(x)$  to make it divisible by  $f(x)$ , we must first divide  $p(x)$  by  $f(x)$

$\therefore$

$$\begin{array}{r}
 2x^3 + 3x^2 \\
 3x^2 - 2x + 4 \overline{) 6x^5 + 5x^4 + 11x^3 - 3x^2 + x + 5} \\
 \underline{-6x^5 + 4x^4 - 6x^3} \phantom{+ x + 5} \\
 9x^4 + 5x^3 - 3x^2 \phantom{+ x + 5} \\
 \underline{-9x^4 + 6x^3 - 12x^2} \phantom{+ x + 5} \\
 11x^3 - 3x^2 + x + 5 \\
 \underline{2x^3 + 3x^2 + 3x - 3} \\
 9x^3 - 15x^2 + x + 8 \\
 \underline{-9x^3 + 6x^2 - 12x} \\
 -9x^2 - 11x + 8 \\
 \underline{+9x^2 - 6x + 12} \\
 -17x + 20
 \end{array}$$

~~$(-17x + 17)$~~