

Ex 2.3 Class X

5(ii)  $\deg q(x) = \deg r(x)$

$$p(x) = 4x^2 + 1$$

$$q(x) = x^2$$

$$q(x) = 4 \quad (\text{degree } 0)$$

$$r(x) = 1 \quad (\text{degree } 0)$$

$$\therefore \deg q(x) = \deg r(x)$$

$$\begin{array}{r} \textcircled{4} \rightarrow \text{degree } 0 \\ x^2 \overline{) 4x^2 + 1} \\ \underline{4x^2} \phantom{+ 1} \\ 1 \phantom{+ 1} \end{array}$$

$\textcircled{1} \rightarrow \text{degree } 0$

5(iii) Same as 5(ii)