


**Division algorithm for polynomials class 10 questions**

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**Next**

**Question-11**  
 Determine whether the given values of  $x$  are zeroes of the given polynomial or not:  $(3x+8)(2x+5)$ ;  $x = 2\frac{1}{2}$ ,  $x = 2\frac{1}{3}$

**Solution:**  
 Let  $p(x) = (3x+8)(2x+5)$   
 Put  $x = 2\frac{1}{2} = \frac{5}{2}$   
 $\Rightarrow p(\frac{5}{2}) = (3 \times \frac{5}{2} + 8)(2 \times \frac{5}{2} + 5) = (8 + 8)(5 + 5) = 16 \times 10 = 160$   
 Put  $x = 2\frac{1}{3} = \frac{7}{3}$   
 $\Rightarrow p(\frac{7}{3}) = (3 \times \frac{7}{3} + 8)(2 \times \frac{7}{3} + 5) = (7 + 8)(\frac{14}{3} + 5) = 15 \times \frac{29}{3} = 145$   
 Therefore the given value of  $x$  is not the zero of the given polynomial.

**Question-21**  
 Form the polynomial whose zeroes are  $3 + \sqrt{3}$ ,  $3 - \sqrt{3}$ .

**Solution:**  
 The zeroes are  $3 + \sqrt{3}$ ,  $3 - \sqrt{3}$ .  $\therefore$  Sum of the zeroes  $= (3 + \sqrt{3}) + (3 - \sqrt{3}) = 6$ .  $\therefore$   
 Product of the zeroes  $= (3 + \sqrt{3})(3 - \sqrt{3})$   
 $= 9 - (\sqrt{3})^2$   
 $= 9 - 3$   
 $= 6$

$\therefore$  The required polynomial is  
 $x^2 - (\text{sum of the zeroes})x + \text{Product of the zeroes} \Rightarrow x^2 - (6)x + (6) \Rightarrow x^2 - 6x + 6$



$p(x) = x^4 - 3x^2 - 4$ ;  $g(x) = x + 2$

$$\begin{array}{r}
 x^3 - 2x^2 + x - 2 \\
 x + 2 \overline{) x^4 + 0x^3 - 3x^2 + 0x - 4} \\
 \underline{x^4 + 2x^3} \phantom{+ 0x^2 + 0x - 4} \\
 (-) (-) \phantom{+ 0x^2 + 0x - 4} \\
 \phantom{x^4 + 2x^3} - 2x^3 - 3x^2 + 0x - 4 \\
 \phantom{x^4 + 2x^3} \underline{- 2x^3 - 4x^2} \\
 \phantom{x^4 + 2x^3} \phantom{- 2x^3 - 4x^2} (+) (+) \\
 \phantom{x^4 + 2x^3} \phantom{- 2x^3 - 4x^2} \phantom{+ 0x^2 + 0x - 4} x^2 + 0x - 4 \\
 \phantom{x^4 + 2x^3} \phantom{- 2x^3 - 4x^2} \phantom{+ 0x^2 + 0x - 4} \underline{x^2 + 2x} \\
 \phantom{x^4 + 2x^3} \phantom{- 2x^3 - 4x^2} \phantom{+ 0x^2 + 0x - 4} (-) (-) \\
 \phantom{x^4 + 2x^3} \phantom{- 2x^3 - 4x^2} \phantom{+ 0x^2 + 0x - 4} \phantom{x^2 + 2x} - 2x - 4 \\
 \phantom{x^4 + 2x^3} \phantom{- 2x^3 - 4x^2} \phantom{+ 0x^2 + 0x - 4} \phantom{x^2 + 2x} \underline{- 2x - 4} \\
 \phantom{x^4 + 2x^3} \phantom{- 2x^3 - 4x^2} \phantom{+ 0x^2 + 0x - 4} \phantom{x^2 + 2x} \phantom{- 2x - 4} (+) (+) \\
 \phantom{x^4 + 2x^3} \phantom{- 2x^3 - 4x^2} \phantom{+ 0x^2 + 0x - 4} \phantom{x^2 + 2x} \phantom{- 2x - 4} \phantom{- 2x - 4} 0
 \end{array}$$

$\therefore q(x) = x^3 - 2x^2 + x - 2$  and  $r(x) = 0$

**Verification:**  
 Division algorithm:  $p(x) = [g(x) \times q(x)] + r(x)$   
 R.H.S.  $= [g(x) \times q(x)] + r(x)$   
 $= [(x + 2) \times (x^3 - 2x^2 + x - 2)] + 0$   
 $= x^4 - 2x^3 + x^2 - 2x + 2x^3 - 4x^2 + 2x - 4$   
 $= x^4 - 3x^2 - 4$   
 $= p(x)$   
 Hence, division algorithm for polynomial is verified.



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