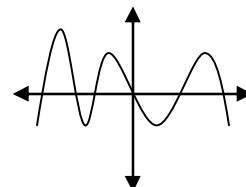
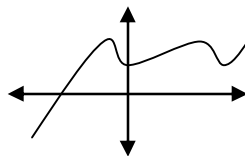
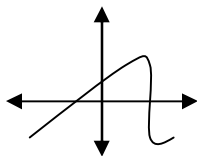
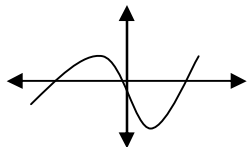


Guess Paper – UNIT: 2 (Algebra)

1. Find the number of zeroes in each of the following:



2. Solve for x and y: $x - 4y = 13$ and $3x + 2y = -3$.
3. Find the discriminant of the quadratic equation $3x^2 - 5x - 11 = 0$.
4. Find AP, if first term -1 and common difference is 2 .
5. Write the formula for sum of first n terms of an AP whose first term is a and the last term is l .
6. Find a quadratic polynomial such that sum of zeroes is 0 and product of zeroes is $-\sqrt{7}$.
7. Find a quadratic polynomial whose zeros are $\frac{-3}{4}$ and $\frac{-4}{3}$.
8. Find the value of k , so that the pair of linear equations will have infinite number of solutions: $x + (2k - 1)y = 4$ and $kx + 6y = k + 6$.

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9. Draw the graphs of the equations $4x - y - 8 = 0$ and $2x - 3y + 6 = 0$. Also determine the vertices of the triangle formed by the lines and x - axis.
10. Draw the graphs of the equations $x - y - 10 = 0$ and $2x - 3y + 20 = 0$. Also determine the vertices of the triangle formed by the lines and Y axis and find its area
11. In a class test, the sum of Shefali's marks in Mathematics and English is 30 . Had she got 2 marks more in Mathematics and 3 marks less in English, the product would have been 210 , find her marks in the two subjects.
12. If the p^{th} term of an AP is q and the q^{th} term is p . Find the r^{th} term.

13. Find the zeroes of the quadratic polynomial $8x^2 - 4$ and verify the relationship between zeroes and their coefficients.
14. Solve the following system of linear equations: $2(ax - by) + (a + 4b) = 0$ and $2(bx + ay) + (b - 4a) = 0$.
15. Solve for x : $9x^2 - 9(a + b)x + (2a^2 + 5ab + 2b^2) = 0$
16. If m times the m^{th} term of an AP is equal to n times its n^{th} term, find its $(m + n)^{\text{th}}$ term. In an AP, prove that $t_{m+n} + t_{m-n} = 2t_m$.
17. Find the value of k , so that the given quadratic equation has real roots: $x^2 + kx + 4 = 0$

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