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We can take $\alpha = \frac{1}{2}, \beta = 1, \gamma = -2$

$\alpha + \beta + \gamma = \frac{1}{2} + 1 + (-2) = -\frac{1}{2} = \frac{-b}{a}$

$\alpha\beta + \beta\gamma + \alpha\gamma = \frac{1}{2} \times 1 + 1(-2) + \frac{1}{2}(-2) = \frac{-5}{2} = \frac{c}{a}$

$\alpha\beta\gamma = \frac{1}{2} \times 1 \times (-2) = \frac{-1}{1} = \frac{-(2)}{2} = \frac{-d}{a}$

Therefore, the relationship between the zeroes and the coefficients is verified.

(ii) $p(x) = x^3 - 4x^2 + 5x - 2$

Zeroes for this polynomial are 2, 1, 1.

$p(2) = 2^3 - 4(2^2) + 5(2) - 2$
$= 8 - 16 + 10 - 2 = 0$

$p(1) = 1^3 - 4(1)^2 + 5(1) - 2$
$= 1 - 4 + 5 - 2 = 0$

Therefore, 2, 1, 1 are the zeroes of the given polynomial.

Comparing the given polynomial with $ax^3 + bx^2 + cx + d$,

we obtain $a = 1$, $b = -4$, $c = 5$, $d = -2$.

Verification of the relationship between zeroes and coefficient of the given polynomial

Sum of zeroes $= 2 + 1 + 1 = 4 = \frac{-(-4)}{1} = \frac{-b}{a}$

Multiplication of zeroes taking two at a time

$= (2)(1) + (1)(1) + (2)(1) = 2 + 1 + 2 = 5 \quad = \frac{(5)}{1} = \frac{c}{a}$

Multiplication of zeroes $= 2 \times 1 \times 1 = 2 \quad = \frac{-(-2)}{1} = \frac{-d}{a}$

2

(v) $B \cap D = \Phi$

(vi) $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$
   $= \{7, 9, 11\} \cup \{11\} = \{7, 9, 11\}$

(vii) $A \cap D = \Phi$

(viii) $A \cap (B \cup D) = (A \cap B) \cup (A \cap D)$
$= \{7, 9, 11\} \cup \Phi$
$= \{7, 9, 11\}$

(ix) $(A \cap B) \cap (B \cap C) = \{7, 9, 11\} \cap \{7, 9, 11, 13, 15\} = \{7, 9, 11\}$

(x) $(A \cup D) \cap (B \cup C) = \{3, 5, 7, 9, 11, 15, 17\} \cap \{7, 9, 11, 13, 15\}$
$= \{7, 9, 11, 15\}$

Question 7: If A = {x: x is a natural number}, B ={x: x is an even natural number}
C = {x: x is an odd natural number} and D = {x: x is a prime number}, find

(i) A ∩ B

(ii) A ∩ C

(iii) A ∩ D

(iv) B ∩ C

(v) B ∩ D

(vi) C ∩ D

Answer 7:
A = {x: x is a natural number} = {1, 2, 3, 4, 5 ...}
B ={x: x is an even natural number} = {2, 4, 6, 8 ...}
C = {x: x is an odd natural number} = {1, 3, 5, 7, 9 ...}
D = {x: x is a prime number} = {2, 3, 5, 7 ...}

(i)   A ∩B = {x: x is a even natural number} = B

(ii)   A ∩ C = {x: x is an odd natural number} = C

(iii)   A ∩ D = {x: x is a prime number} = D

(iv)   B ∩ C = Φ

(v)   B ∩ D = {2}

(vi)   C ∩ D = {x: x is odd prime number}

Question 8: Which of the following pairs of sets are disjoint

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Exercise 4.2

Question 1:
Find the roots of the following quadratic equations by factorisation:
(i) $x^2 - 3x - 10 = 0$ (ii) $2x^2 + x - 6 = 0$
(iii) $\sqrt{2}x^2 + 7x + 5\sqrt{2} = 0$ (iv) $2x^2 - x + \frac{1}{8} = 0$
(v) $100x^2 - 20x + 1 = 0$

Answer:
(i) $x^2 - 3x - 10$
$= x^2 - 5x + 2x - 10$
$= x(x - 5) + 2(x - 5)$
$= (x - 5)(x + 2)$

Roots of this equation are the values for which $(x - 5)(x + 2) = 0$

∴ $x - 5 = 0$ or $x + 2 = 0$
i.e., $x = 5$ or $x = -2$

(ii) $2x^2 + x - 6$
$= 2x^2 + 4x - 3x - 6$
$= 2x(x + 2) - 3(x + 2)$
$= (x + 2)(2x - 3)$

Roots of this equation are the values for which $(x + 2)(2x - 3) = 0$

∴ $x + 2 = 0$ or $2x - 3 = 0$
i.e., $x = -2$ or $x = \frac{3}{2}$

Example 13 Find the modulus and argument of the complex numbers:

(i) $\dfrac{1+i}{1-i}$,   (ii) $\dfrac{1}{1+i}$

Solution (i) We have, $\dfrac{1+i}{1-i} = \dfrac{1+i}{1-i} \times \dfrac{1+i}{1+i} = \dfrac{1-1+2i}{1+1} = i = 0 + i$

Now, let us put $0 = r\cos\theta$, $1 = r\sin\theta$

Squaring and adding, $r^2 = 1$ i.e., $r = 1$ so that

$$\cos\theta = 0,\ \sin\theta = 1$$

Therefore, $\theta = \dfrac{\pi}{2}$

Hence, the modulus of $\dfrac{1+i}{1-i}$ is 1 and the argument is $\dfrac{\pi}{2}$.

(ii) We have $\dfrac{1}{1+i} = \dfrac{1-i}{(1+i)(1-i)} = \dfrac{1-i}{1+1} = \dfrac{1}{2} - \dfrac{i}{2}$

Let $\dfrac{1}{2} = r\cos\theta$, $-\dfrac{1}{2} = r\sin\theta$

Proceeding as in part (i) above, we get $r = \dfrac{1}{\sqrt{2}}$; $\cos\theta = \dfrac{1}{\sqrt{2}}$, $\sin\theta = \dfrac{-1}{\sqrt{2}}$

Therefore $\theta = \dfrac{-\pi}{4}$

Hence, the modulus of $\dfrac{1}{1+i}$ is $\dfrac{1}{\sqrt{2}}$, argument is $\dfrac{-\pi}{4}$.

Example 14 If $x + iy = \dfrac{a+ib}{a-ib}$, prove that $x^2 + y^2 = 1$.

Solution We have,

$$x + iy = \dfrac{(a+ib)(a+ib)}{(a-ib)(a+ib)} = \dfrac{a^2-b^2+2abi}{a^2+b^2} = \dfrac{a^2-b^2}{a^2+b^2} + \dfrac{2ab}{a^2+b^2}i$$

To find the percentage of distance:

Ashima used this method:

$\dfrac{22}{55} = \dfrac{22}{55} \times \dfrac{100}{100} = 40\%$

She is multiplying

the ratio by $\dfrac{100}{100} = 1$

and converting to

percentage.

OR

John used the unitary method:

Out of 55 km, 22 km are travelled.

Out of 1 km, $\dfrac{22}{55}$ km are travelled.

Out of 100 km, $\dfrac{22}{55} \times 100$ km are travelled.

That is 40% of the total distance is travelled.

Both came out with the same answer that the distance from their school of the place where they stopped at was 40% of the total distance they had to travel.
Therefore, the percent distance left to be travelled = $100\% - 40\% = 60\%$.

TRY THESE

In a primary school, the parents were asked about the number of hours they spend per day in helping their children to do homework. There were 90 parents who helped for $\dfrac{1}{2}$ hour to $1\dfrac{1}{2}$ hours. The distribution of parents according to the time for which, they said they helped is given in the adjoining figure ; 20% helped for more than $1\dfrac{1}{2}$ hours per day;

30% helped for $\dfrac{1}{2}$ hour to $1\dfrac{1}{2}$ hours; 50% did not help at all.

Using this, answer the following:
(i) How many parents were surveyed?
(ii) How many said that they did not help?
(iii) How many said that they helped for more than $1\dfrac{1}{2}$ hours?

EXERCISE 8.1

1. Find the ratio of the following.
   (a) Speed of a cycle 15 km per hour to the speed of scooter 30 km per hour.
   (b) 5 m to 10 km   (c) 50 paise to ₹ 5
2. Convert the following ratios to percentages.
   (a) 3 : 4   (b) 2 : 3
3. 72% of 25 students are interested in mathematics. How many are not interested in mathematics?
4. A football team won 10 matches out of the total number of matches they played. If their win percentage was 40, then how many matches did they play in all?
5. If Chameli had ₹ 600 left after spending 75% of her money, how much did she have in the beginning?

2019-20

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