

Q1: Which of the following is/are not polynomial?

$$2xy + z$$

$$0x^3$$

$$\frac{p}{q}$$

$$\frac{1}{2}$$

$$\sqrt{x}$$

$$\frac{x}{2} + 3y + \sqrt{2}a$$

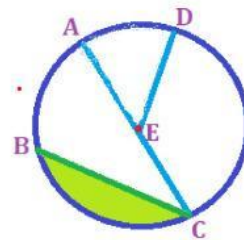
Q2: Choose the best option:

- No of terms of quadratic Monomial is/are
a) 1 b) 2 c) 3 d) 5
- Zero polynomial has _____ degree
a) No b) 0 c) 1 d) 2
- Region enclosed by semi-circle is called
a) sector b) segment c) both a and b d) none
- Subtraction of $3 - 3b^2$ from $1 - 2b^2$ gives
a) $-2 - b^2$ b) $2 + b^2$ c) $2 - b^2$ d) $b^2 - 2$
- Polynomial is an algebraic expression in which exponent of _____ must be whole number.
a) Coefficient b) variable c) Constant d) all of them

Is there any mistake in this part of solution?
 $(m^2 - 7) - (-3 + 4m^2)$
 $= m^2 - 7 + 3 + 4m^2$
Yes / No

Q3: Fill in the blanks according to figure.

- $\overline{CB}$ is _____.
- $\widehat{CB}$ is _____.
- Region enclosed by $\overline{AE}$, $\overline{ED}$ and $\widehat{AD}$ is called _____.
- $m\angle DE = 5\text{cm}$ then $m\angle AC =$ _____.
- Shaded region is called _____.
- Longest chord is _____.
- Distance around the boundary of circle from point D to D is _____.



Q4: Identify following statements as true or false:

- Every chord is diameter. True / False
- The line which joins two boundary points of circle is called radial segment. True / False
- π is a rational number. True / False
- If radius of a quarter circle is 7cm then radius of complete circle is 28cm. True / False
- $4x^2y^2 + 6$ is biquadratic binomial. True / False
- Sum of $x^2 - 2xy + y^2$ and $x^2 + 2xy + y^2$ is $2x^2 + 2y^2$ True / False

Q5: Fill in the blanks according to given polynomial:

$$\frac{3}{2}x^2 \div 4 - 2xy^2 + 3$$

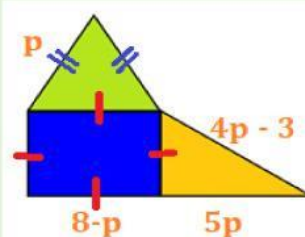
- Number of terms are _____
- Degree of polynomial is _____
- Type of polynomial w.r.t terms is _____
- Type of polynomial w.r.t degree is _____

Q7: Perimeter of a square whose length of each side is $x + y$ is _____

$$2x + 2y \quad 4x + 2y \quad 4x + 4y$$

Q8: Perimeter of a given figure is _____

$$9p + 13 \quad \text{OR} \quad 13p + 5$$



Q6: Match the polynomial with its type:

- | | |
|--------------------|---------------------|
| $0a^2 + 0a$ | Constant polynomial |
| $\sqrt{49}$ | Cubic polynomial |
| $p^2 + 2pq + 3p^3$ | Linear polynomial |
| $5w + 4y \times 3$ | Quadratic Binomial |
| $3x^2 - 5$ | Zero polynomial |

Q7: Leading coefficient of $-3x^2 - 9 + 5x^3$ is _____