Topic: Polynomial, its types and elements of circle

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

$2xy + z$, $0x^3$, $\frac{p}{q}$, $\frac{1}{2}$, $\sqrt{x}$, $\frac{x}{2} + 3y + \sqrt{2}a$

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

Q2: Choose the best option:

i. No of terms of quadratic Monomial is/are
a) 1 b) 2 c) 3 d) 5

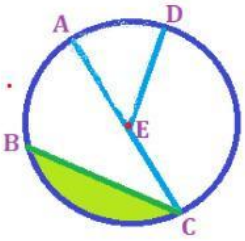
ii. Zero polynomial has _____ degree
a) No b) 0 c) 1 d) 2

iii. Region enclosed by semi-circle is called
a) sector b) segment c) both a and b d) none

iv. Subtraction of $3 - 3b^2$ from $1 - 2b^2$ gives
a) $-2 - b^2$ b) $2 + b^2$ c) $2 - b^2$ d) $b^2 - 2$

v. Polynomial is an algebraic expression in which exponent of _____ must be whole number.
a) Coefficient b) variable c) Constant d) all of them

Q3: Fill in the blanks according to figure.



i. $\overline{CB}$ is _____.

ii. $\widehat{CB}$ is _____.

iii. Region enclosed by $\overline{AE}$, $\overline{ED}$ and $\widehat{AD}$ is called _____

iv. mDE = 5cm then mAC= _____.

v. Shaded region is called _____.

vi. Longest chord is _____.

vii. Distance around the boundary of circle from point D to D is _____.

Q4: Identify following statements as true or false:

i. Every chord is diameter. True / False

ii. The line which joins two boundary points of circle is called radial segment. True / False

iii. Π is a rational number. True / False

iv. If radius of a quarter circle is 7cm then radius of complete circle is 28cm. True / False

v. $4x^2y^2 + 6$ is biquadratic binomial. True / False

vi. 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:

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

i. Number of terms are _____

ii. Degree of polynomial is _____

iii. Type of polynomial w.r.t terms is _____

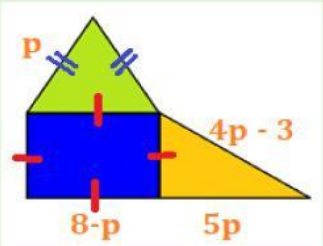
iv. Type of polynomial w.r.t degree is _____

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

2x + 2y | 4x + 2y | 4x + 4y

Q8: Perimeter of a given figure is _____

9p + 13 OR 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 _____

Virtual teaching phase 1: Maths 7

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