

EXERCISE 2A

Solution 1: We have

(i) $x^5 - 2x^3 + x + \sqrt{3}$

Since, it is an expression having only non-negative integral powers of x . Also, the highest power of x is 5.

It is a polynomial of degree 5.

(ii) $y^3 + \sqrt{3}y$ it is an expression with non-negative integral powers of y , also has the highest power of y is 3.

\therefore it is a polynomial of degree 3.

(iii) $t^2 - \frac{2}{5}t + \sqrt{5}$ it is an expression with non - negative integral power of t , having highest power of t is 2.

\therefore it is a polynomial of degree 2.

(iv) $x^{100} - 1$

Since, it is an expression having only non-negative integral powers of x . Also, the highest power of x is 100.

It is a polynomial of degree 100.

(v) $\frac{1}{\sqrt{2}}x^2 - \sqrt{2}x + 2$

Since, it is an expression having only non-negative integral powers of x . Also, the highest power of x is 2.

\therefore It is a polynomial of degree 2.

(vi) $x^{-2} + 2x^{-1} + 3$ is not a polynomial. Since, it has a negative power.

(vii) 1 it is a constant polynomial of degree 0.

(viii) $-\frac{3}{5}$ is a constant polynomial of degree 0.

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Yadav, J P



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