

Polynomial: a monomial or sum of monomials.
Binomial- 2 unlike terms ie. $x y+z^{3}$

Trinomial- 3 unlike terms ie. $x^{2}+3 x+1$

Degree of a Polynomial- The degree of the monomial with the greatest degree $\begin{array}{cccc}4 x^{3}+3 x^{2} & \text { degree } 3 & 5 x^{5} y^{1}+4 x^{3} y^{6} & \text { degree } 9 \\ 3 & 6 & 6 & 9\end{array}$
I. Determine whether each is a polynomial and state the degree.
1.0 Pr ab "Notapolynomial since"c"is under the radical

II. Simplify
A. $\left(2 a^{3}+5 a-7\right)-1\left(a^{3}-3 a+2\right)$
$2 a^{3}+5 a-7-a^{3}+3 a-2=a^{3}+8 a-9$


Note
B. $-y\left(4 y^{2}+2 y-3\right)$

$$
\begin{gathered}
a+a=2 a \\
a \cdot a=a^{2}
\end{gathered}
$$

C. $(2 p+3)(4 p+1)$


Binomial. Binomial


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