

Factor Completely:

1.) $x^4 - y^4 \rightarrow$ DOS

$$(x^2 + y^2)(x^2 - y^2)$$

$$(x^2 + y^2)(x + y)(x - y)$$

2.) $\frac{13x^5}{13x} - \frac{13x}{13x}$

$$13x(x^4 - 1)$$

$$13x(x^2 + 1)(x^2 - 1)$$

$$13x(x^2 + 1)(x + 1)(x - 1)$$

3.) $2y^2 - 9y - 18$

$a=2 \quad b=-9 \quad c=-18$

~~$$\begin{matrix} & -36 & \\ -12 & & 3 \\ & -9 & \end{matrix}$$~~

$$\left(\frac{2y^2}{2y} - \frac{12y}{2y} + \frac{3y}{3} - \frac{18}{3} \right)$$

$$2y(y-6) + 3(y-6)$$

$$(2y+3)(y-6)$$

Quiz 7-3 Factoring Polynomials (MIXED)

- 1.) GCF
- 2.) Difference of Squares
- 3.) GCF then AC Method
- 4.) GCF then AC Method
- 5.) Grouping
- 6.) GCF then Difference of Square
- 7.) AC Method
- 8.) AC Method
- 9.) GCF
- 10.) Grouping then Difference of Squares