Precalc Class Work Practice   10.5 and 10.6   Name _____ Mod ___

1. Write the partial fraction decomposition of each rational expression.

a) $\dfrac{x-3}{(x+2)(x+1)^2}$

b) $\dfrac{x^2-11x-18}{x^3+3x^2+3x}$

2. Identify the graph of each conic. Then solve the system to find the intersection.

a) $\begin{cases} x^2-4y^2=16 \underline{\hspace{3cm}} \\ 2y-x=2 \underline{\hspace{3cm}} \end{cases}$

b) $\begin{cases} x^3-2x^2+y^2+3y-4=0 \underline{\hspace{2cm}} \\ x-2+\dfrac{y^2-y}{x^2}=0 \underline{\hspace{2cm}} \end{cases}$

3. Use your calculator to solve the system by graphing. Round solution to two decimal places.
$\begin{cases} x^3+y^2=4 \\ x^2y=4 \end{cases}$