Math 4E
Quiz 6

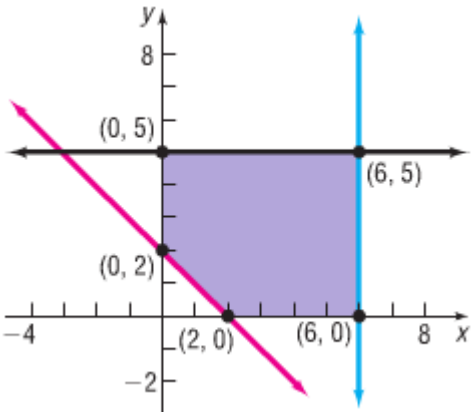
Name: _____

1. Use partial fraction decomposition to write $\frac{9x+6}{x^3-8}$ as two or more fractions.

2. Solve the nonlinear system $\begin{Bmatrix} x^2-xy-2y^2=0 \\ xy+x+6=0 \end{Bmatrix}$.

Math 4E
Quiz 6

3. Give a system of inequalities satisfying the following graph



4. Write the (alternating) sum $\frac{1}{2}-\frac{2}{3}+\frac{3}{4}-\frac{4}{5}+\ldots+\frac{13}{14}$ using summation notation.

5. Use the Binomial Theorem to find the constant term in the expansion of $\left(x-\frac{1}{x^2}\right)^9$