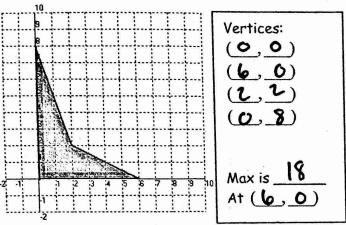
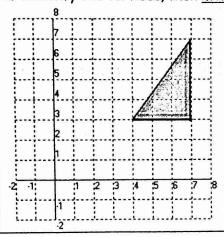
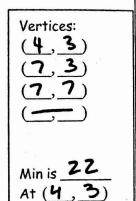
Algebra 2 TEST 2.1 Review 2016

- Find the values of x and y that minimize or maximize the objective functions for each feasible region. Also find the value of the maximum or minimum.
- 1. Identify the vertices, then maximize P = 3x + 2y

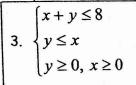


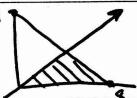
2. Identify the vertices, then minimize C = 4x + 2y



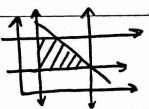


Graph each system of restrictions.

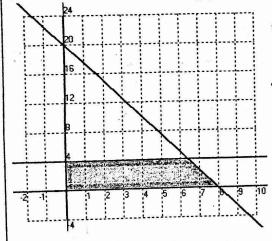




4.
$$\begin{cases} 2 \le y \le 4 \\ 1 \le x \le 3 \\ 2x + y \le 8 \end{cases}$$



5. Watch the scales on each axis! 7List the restrictions for the following graph.



0675H Y = - 5 x to

6. A gold processor has two sources of gold ore, source A and source B. In order to keep his plant running, at least three tons of ore must be processed each day. Ore from source A costs \$20 per ton to process, and ore from source B costs \$10 per ton to process. Costs must be kept to less than \$80 per day. Moreover, Federal Regulations require that the amount of ore from source B cannot exceed twice the amount of ore from source A. If ore from source A yields 2 oz. of gold per ton, and ore from source B yields 3 oz. of gold per ton, how many tons of ore from both sources must be processed each day to maximize the amount of gold extracted subject to the above constraints?

State the dimensions and identify the indicated element of each matrix.

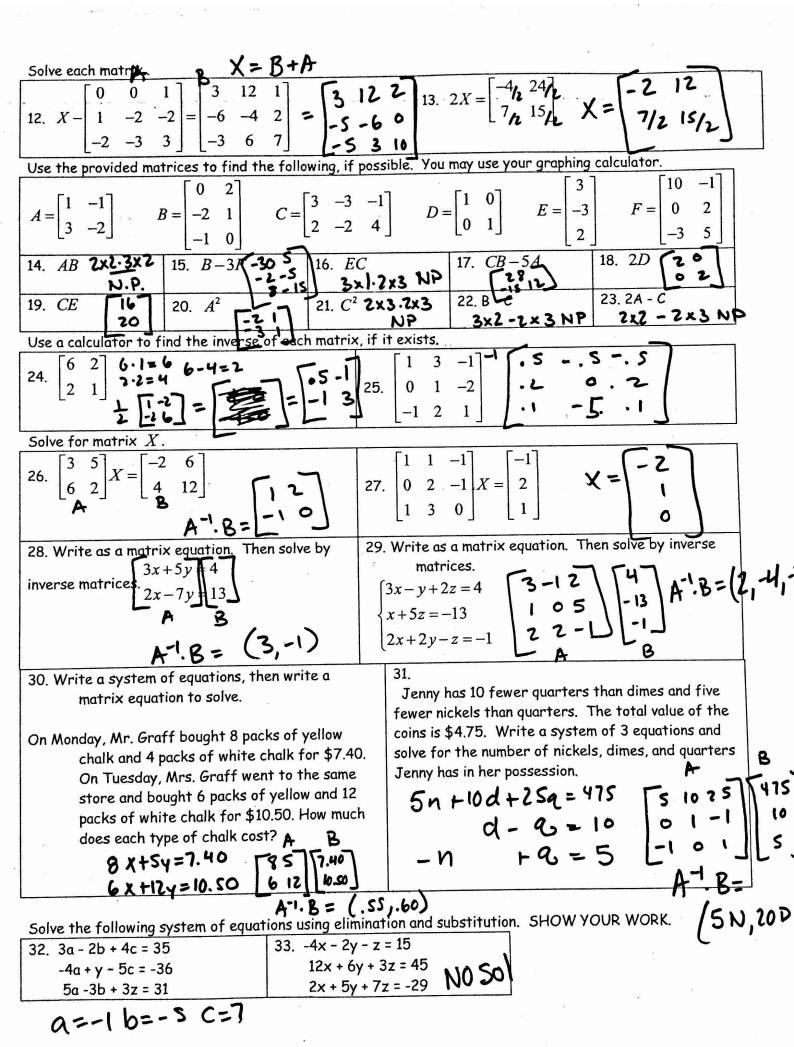
<u> </u>				HALL BEIGH	
7.	2 -3 -6	;	a ₂₁	=	-3

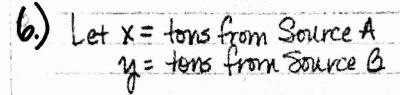
8.
$$\begin{bmatrix} 5 & -7 & 23 & 10 \\ -9 & 3 & 5 & -2 \\ 1 & 9 & 0 & 2 \end{bmatrix}; a_{23} = 5$$

$$\left| \begin{array}{cccc} x & y & z \\ d & e & f \\ p & q & r \end{array} \right| : a_{32} \quad \mathbf{Q}$$

10. Solve for each variables.

Solve for each variables.
$$\begin{bmatrix} a & 2b \\ c-2 & d+3 \end{bmatrix} = \begin{bmatrix} 5 & -7 \\ 10 & 10 \end{bmatrix}$$
b=-7





+4=3 +104=80 =ax P= 2x + 3y

P(1,2)= 2(1)+3(2)

% = -20 x+80 y = 2x+8 y = -x+3

