Multiplying Matrices Practice 2
Algebra II

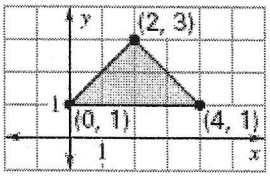
Name_____ **Date**_____ **Period**____

1. **Football** Attendance for the first three football games of the season is described in the table. Adult tickets sold for $5.00. Student tickets sold for $2.50. Use matrix multiplication to find the revenue for each game.

	Adults	Students
Game 1	320	150
Game 2	290	175
Game 3	350	220

2. **Soccer** Tickets to the soccer game cost $2.50 for students, $5.00 for adults,and $4.00 for senior citizens. Attendance for the first game of the postseason was 120 students, 185 adults, and 34 senior citizens. Attendance for the second game of the postseason was 150 students, 210 adults, and 50 senior citizens. Use matrix multiplication to find the revenue from ticket sales for each game.

3. **Geometry** Matrix B contains the coordinates of vertices of the triangle shown in the graph. Calculate AB and determine what effect the multiplication of matrix A has on the graph.



$$A=\begin{bmatrix}-1 & 0\\ 0 & -1\end{bmatrix} \qquad B=\begin{bmatrix}0 & 2 & 4\\ 1 & 3 & 1\end{bmatrix}$$