

Name _____

4-1A Lesson Master

Questions on SPUR Objectives

See Student Edition pages 293–297 for objectives.

SKILLS Objective A

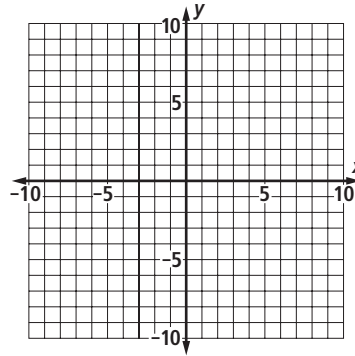
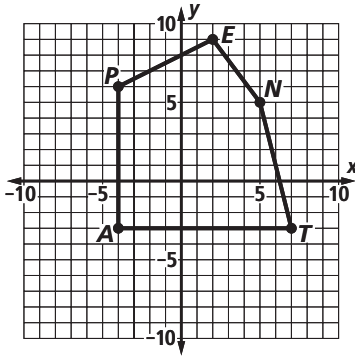
In 1 and 2, write a point matrix for the given ordered pair.

1. $(7, -2)$ _____

2. (x, y) _____

3. Write a 2×5 matrix representing the polygon *PENTA* shown below.

4. Graph the polygon represented by the matrix $\begin{bmatrix} 3 & 0 & -5 & -1 \\ 1 & 7 & 5 & -1 \end{bmatrix}$ below.



USES Objective I

5. In 1990, total energy consumption in the United States was 338.4 Btu per person, and in China it was 23.5 Btu per person. In 2000, consumption was 350.6 and 29.5 respectively, and in 2005, 340.5 and 51.4 Btu per person. Store these data in a 3×2 matrix.

6. The matrix at the right shows the median yearly income for men and women by educational level for the year 2000.

	Men	Women
No HS diploma	\$24,437	\$17,209
HS diploma or GED	\$32,493	\$23,719
Associate's degree	\$41,067	\$30,178
Bachelor's degree	\$53,505	\$38,208

a. What does the entry in row 2, column 1 represent?

b. How much higher is the median income for men with a bachelor's degree than the median income for women with the same degree? _____

c. Over a 45-year working life, how much more will a typical man with a bachelor's degree earn than a typical man with no high school diploma? _____