

Name _____

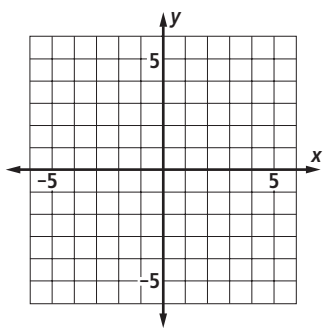
4-1B Lesson Master

Questions on SPUR Objectives
See Student Edition pages 293–297 for objectives.

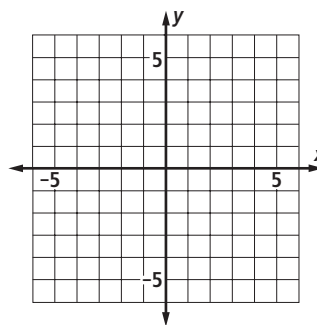
SKILLS Objective A

In 1–4, draw the polygon described by the matrix below each question.

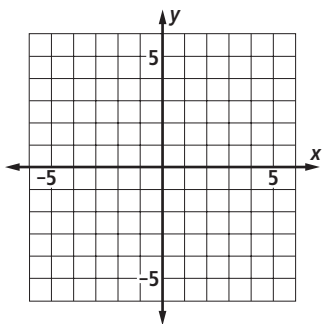
1. $\begin{bmatrix} 4 & 0 & 5 \\ -2 & -3 & 1 \end{bmatrix}$



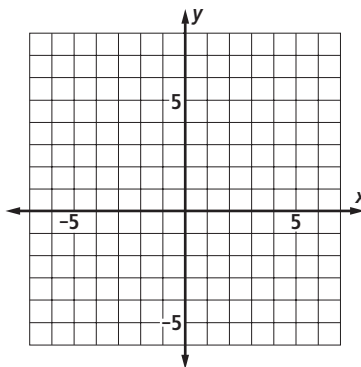
2. $\begin{bmatrix} -4 & -1 & 3 & 2 & -1 \\ 2 & 3 & 2 & -5 & -2 \end{bmatrix}$



3. $\begin{bmatrix} 0 & 2 & 0 \\ 0 & 5 & -3 \end{bmatrix}$

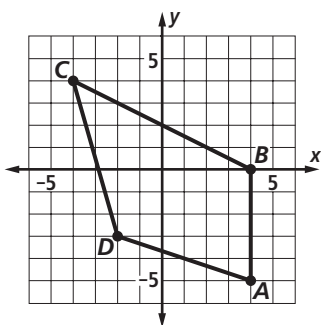


4. $\begin{bmatrix} 0 & 6 & 5 & -6 \\ -3 & 0 & 6 & 4 \end{bmatrix}$

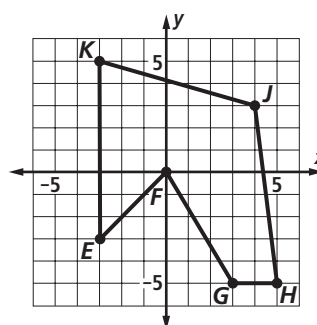


In 5 and 6, write a matrix for the given polygon.

5. Write a 2×4 matrix to represent polygon $DCBA$.



6. Write a 2×6 matrix to represent polygon $GFEKJH$.



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USES Objective I

7. At Outfits East, 22% of last year’s sales were children’s clothing, 41% were women’s, and 37% were men’s. At Outfits West, 17% of last year’s sales were children’s clothing, 55% were women’s, and 28% were men’s. At Outfits North, 33% of last year’s sales were children’s clothing, 23% were women’s, and 44% were men’s. At Outfits South, 14% of last year’s sales were children’s clothing, 32% were women’s, and 54% were men’s. Store this information in a 4×3 matrix.

8. The matrix at the right gives the subscription figures for *The Metropolitan Sentinel* for a five-year period.

	City	Suburbs
2004	14,662	12,004
2005	15,325	11,867
2006	15,418	12,388
2007	15,790	13,056
2008	17,126	13,540

a. What are the dimensions of this matrix?

b. What does the element in row 1, column 2 represent?

c. In what row and column is the entry 13,056?

d. How many suburban subscribers were there in 2006?

9. The matrix at the right shows the median age at first marriage for men and women for years 2003 through 2006.

	2003	2004	2005	2006
Male	26.9	27.1	27.0	27.5
Female	25.3	25.3	25.5	25.9

a. What does the entry in row 2, column 3 represent?

b. In what row and column is the entry 27.1?

c. What was the median age at first marriage of a female in 2003?

d. By how many months did the median age at first marriage of a male increase from 2005 to 2006?
