

SAMPLE QUESTIONS

1. Sheet 329 example.

FIND x, y . (a) "y=" (b) sketch (c) Solve

$$\begin{cases} x^2 + y^2 = 4 \\ 2x + y = 1 \end{cases}$$

Reset defaults.

2nd MEM + 722

VARs | YVARs FUNC Y,

2nd CALC S: Interac
TRACE

yes ENTER

43

ENTER

guess ENTER

Example for sheet 955

$$\text{Solve } \begin{cases} x + 2y = 5 \\ -3x - y = -5 \end{cases}$$

Using an inverse Matrix
by hand.

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \quad \begin{vmatrix} a & b \\ c & d \end{vmatrix} = ad - cb$$

$$A^{-1} = \frac{1}{\det A} \begin{bmatrix} d & -b \\ -c & a \end{bmatrix}$$