# 7.1 Systems of Equations

$$y = 3x + 1$$

$$y = -x + 5$$

## Graphing

$y = 3x + 1$

$y = -x + 5$

$(1, 4)$
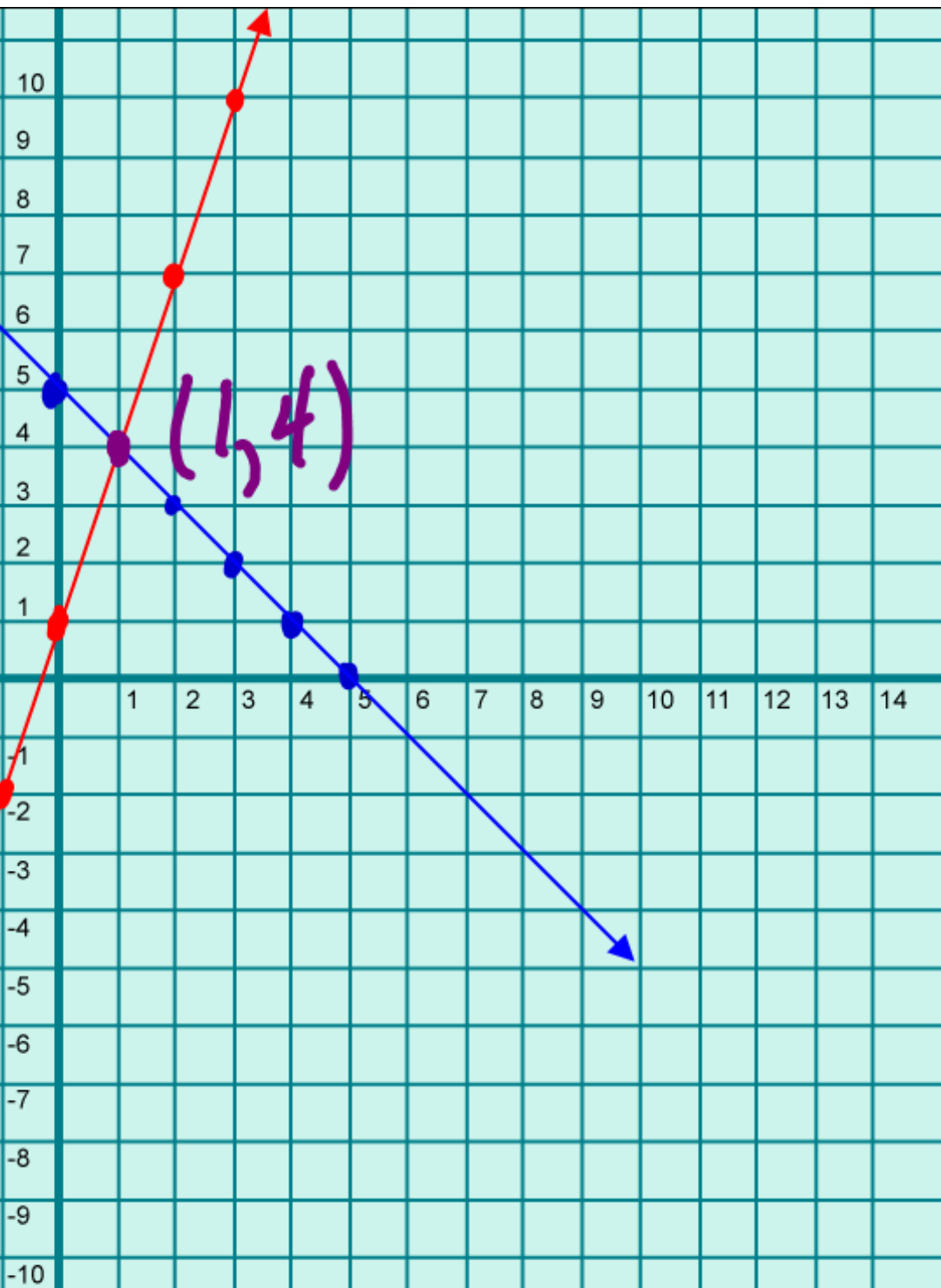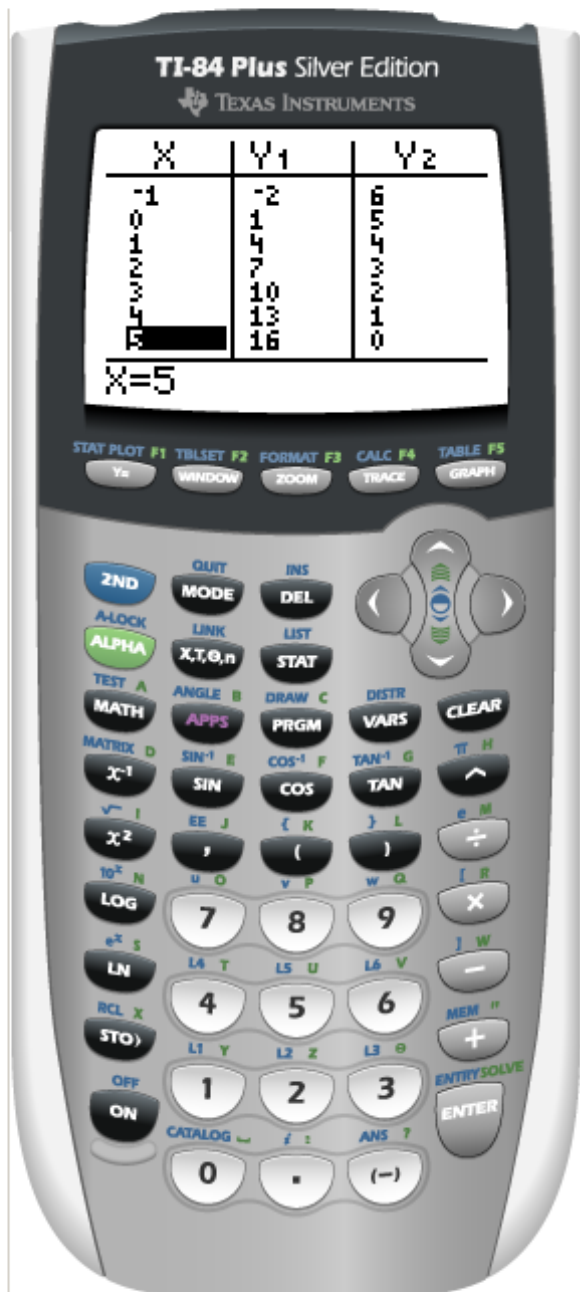
$(1, 4)$

$4 = 3(1) + 1$

$4 = 4$

$4 = -1 + 5$

$4 = 4$

## TI-84 Plus Silver Edition

### Calculator Screen (Table)

| X | Y1 | Y2 |
|---|----|----|
| -1 | -2 | 6 |
| 0 | 1 | 5 |
| 1 | 4 | 4 |
| 2 | 7 | 3 |
| 3 | 10 | 2 |
| 4 | 13 | 1 |
| 5 | 16 | 0 |

X=5

### Equation

Plot1  Plot2  Plot3
- \Y1 ■ 3X+1
- \Y2 ■ -X+5
- \Y3 =
- \Y4 =
- \Y5 =
- \Y6 =
- \Y7 =

### Table

| X | Y1 | Y2 |
|---|----|----|
| -1 | -2 | 6 |
| 0 | 1 | 5 |
| 1 | 4 | 4 |
| 2 | 7 | 3 |
| 3 | 10 | 2 |
| 4 | 13 | 1 |
| 5 | 16 | 0 |

X=5

### Graph

## Key Press History

| 2nd | TRACE | 5 | ENTER | ENTER | ENTER |
| 2nd | WINDOW | 2nd | GRAPH | ▼ | ▼ |
| ▼ | ▼ | ▼ | ▼ | ▼ | ▼ |
| ▼ | ▼ |

Large Screen

Clear Key Press History

p320

$$y = 2x + 2$$

$$y = -x - 1$$

$$(-1, 0)$$
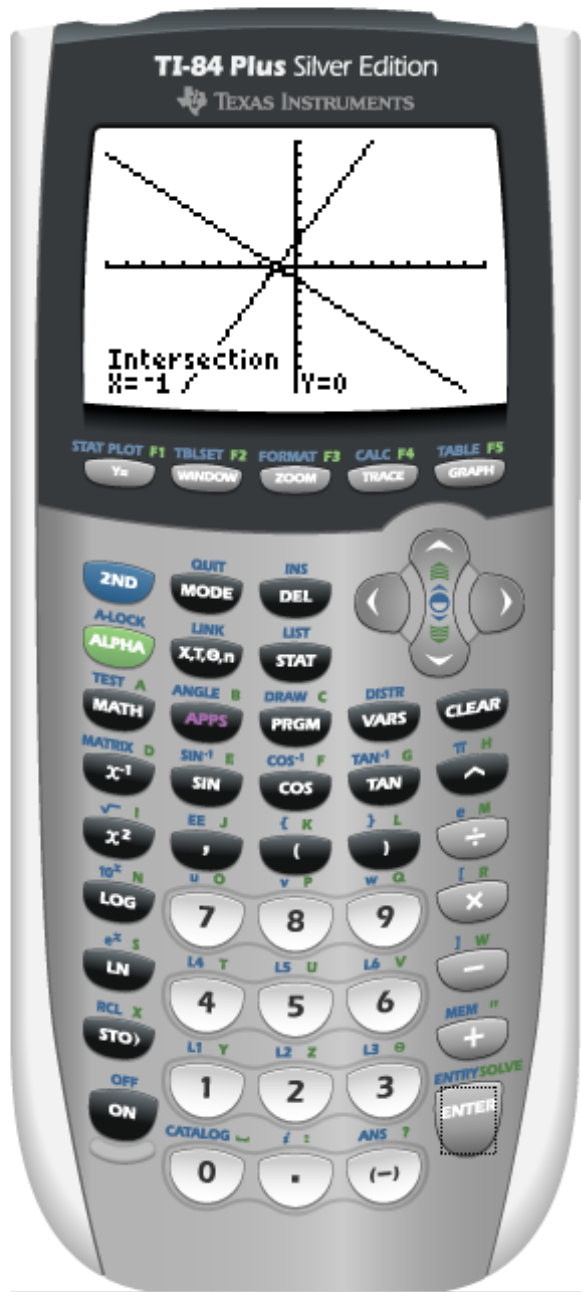
**TI-84 Plus** Silver Edition
TEXAS INSTRUMENTS

Intersection
X=-1 / Y=0

**Plot2 Plot3**
\Y1■2X+2
\Y2■-X-1
\Y3=
\Y4=
\Y5=
\Y6=
\Y7=

Equation

| X | Y1 | Y2 |
|---|-----|-----|
| -1 | 0 | 0 |
| 0 | 2 | -1 |
| 1 | 4 | -2 |
| 2 | 6 | -3 |
| 3 | 8 | -4 |
| 4 | 10 | -5 |
| 5 | 12 | -6 |

X= -1

Table
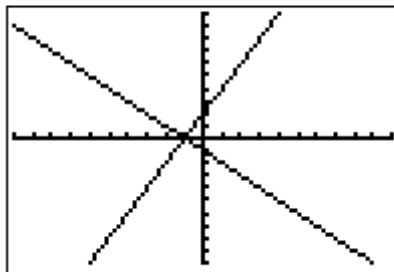
Graph

## Key Press History | Large Screen

| 2 | X,T,Θ,n | + | 2 | ⌄ | (−) |
|---|---------|---|---|---|-----|

| X,T,Θ,n | — | 1 | GRAPH | 2nd | TRACE |
|---------|---|---|-------|-----|-------|

| 5 | ENTER | ENTER | ENTER |
|---|-------|-------|-------|

Clear Key Press History

Intersect pt
1 point

Parallel

Same
Line