

BE-1B

TUESDAY 3-11-08

* ONLY 3 SHOPPING
days to 7 day.

NOTE: EXAM 2 REVIEW $\Rightarrow$ Ch. 10-1, 10-4, 7-1 to 4,
11-1, 11-2, 11-4, 11-5,
AHSGE Workbook.

① ON THE SAME GRAPH, GRAPH THE FOLLOWING
LINEAR EQUATIONS: (A) $y = -x - 2$
(B) $y = 2x - 4$

② SOLVE THE FOLLOWING SYSTEM OF LINEAR EQUATIONS:
$$\begin{cases} y = -x - 2 \\ y = 2x - 4 \end{cases}$$

③ ON THE SAME GRAPH, GRAPH THE FOLLOWING
LINEAR EQUATIONS: (A) $x + y = 2$
(B) $2y - x = 10$

④ SOLVE THE FOLLOWING SYSTEM OF LINEAR EQUATIONS:
$$\begin{cases} x + y = 2 \\ 2y - x = 10 \end{cases}$$

• TAKE OUT homework, Page 579 #4-7, 12-14
 $\Rightarrow$ homework review

(EX)

Using A system of LINEAR EQUATIONS TO

SOLVE A problem:

The units digit of A 2 digit number exceeds twice the tens digit by 1. Find the number if the sum of its digits is 10.

Let N be ones digit (EX) t N
 t be tens digit

$$\begin{cases} N = 2t + 1 \\ N + t = 10 \end{cases}$$

$$\begin{aligned} N &= 2t + 1 \\ (N) + t &= 10 \end{aligned}$$

$$(2t + 1) + t = 10$$

$$2t + 1 + t = 10$$

$$\begin{array}{r} 3t + 1 = 10 \\ -1 \quad -1 \\ \hline \end{array}$$

$$\frac{3t}{3} = \frac{9}{3}$$

$$t = 3$$

$$\therefore N = 2t + 1$$

$$N = 2(3) + 1$$

$$(N = 7)$$

$$\boxed{37}$$

Recall: 2 special cases

Variable "goes away", false statement

[NO SOLUTION]

true statement

[ALL REAL NUMBERS]

In the case of systems of linear

equations $\Rightarrow$ NO SOLUTION $\Rightarrow$ lines are //

ALL REALS $\Rightarrow$ lines are the same

Homework: Ch. 7 Practice Test Page 403
7, 8, 10, 13, 16, 20.