

O.T.L.

① Pg 421 : 20-22(all); 24-29
(all)

20 No Sol.

21 $(\frac{2}{3}, 0)$

22 No Sol.

24 No Sol.

25 ∞ Sol

26 $(0, -4)$

27 ∞ Sol

28 $(-1, -4)$

29 NO Sol

!!!! That Solution.

Chapter 7 Test Tomorrow

Thurs. Feb. 1, 2007

14 ?'s

7.1-7.3 Quiz } 1+2 : Graph & Check
3-6 : Substitution
7-10 : Combo.
O.T.L. above } 11-14 : 1 Sol. / NO Sol. / ∞ Sol.

↓
if 1 Sol..
What is
that Sol.?

Why?

Same Slope, Same y-int, \rightarrow Same equation
gives me ∞ many Sol.
Same Slope, Diff. y-int, \rightarrow // lines
 \rightarrow No Sol.

24

$$\begin{aligned} -7x + 7y &= 7 \\ 2x - 2y &= -18 \end{aligned}$$

$$\begin{aligned} \rightarrow -7x + 7y &= 7 \\ + 7x \quad + 7x & \\ \hline 7y &= 7x + 7 \\ \frac{7y}{7} &= \frac{7x}{7} + \frac{7}{7} \\ \boxed{y} &= x + 1 \end{aligned}$$

$$\begin{aligned} \rightarrow 2x - 2y &= -18 \\ - 2x \quad - 2x & \\ \hline -2y &= -2x - 18 \\ \frac{-2y}{-2} &= \frac{-2x}{-2} - \frac{18}{2} \\ \boxed{y} &= x + 9 \end{aligned}$$

Same Slopes,
Different y-int.
So... they are
Parallel
So... NO Solution

28

$$\begin{aligned} -6x + 2y &= -2 \\ -4x - y &= 8 \end{aligned}$$

$$\begin{aligned} \rightarrow -6x + 2y &= -2 \\ +6x & \quad +6x \\ \hline 2y &= 6x - 2 \\ \frac{2y}{2} &= \frac{6x}{2} - \frac{2}{2} \end{aligned}$$

$$y = 3x - 1$$

$$\begin{aligned} y &= y \\ 3x - 1 &= -4x - 8 \\ +4x & \quad +4x \\ \hline 7x - 1 &= -8 \\ +1 & \quad +1 \\ \hline 7x &= -7 \end{aligned}$$

$$\frac{7x}{7} = \frac{-7}{7}$$

$$x = -1$$

$$\begin{aligned} \rightarrow -4x - y &= 8 \\ +4x & \quad +4x \\ \hline -y &= 4x + 8 \\ \frac{-y}{-1} &= \frac{4x}{-1} + \frac{8}{-1} \end{aligned}$$

$$y = -4x - 8$$

$$\begin{aligned} y &= 3(-1) - 1 \\ y &= -3 - 1 \\ y &= -4 \end{aligned}$$

26 $2x + y = -4$
 $4x - 2y = 8$

$y = -2x - 4$

$4x - 2y = 8$

$-4x \quad -4x$

$-2y = -4x + 8$
 $-2 \quad -2 \quad -2$

$y = 2x - 4$

$-2x - 4 = 2x - 4$

$+2x \quad +2x$

$-4 = 4x - 4$

$+4 \quad +4$

$0 = 4x$

$x = 0$

$y = -4$