



7.2 Solve Linear Systems by Substitution

EXERCISES

Solve the linear system using substitution.

@ substitute

$$(y+4) + 4y = 9$$

 $5y + 4 = 9$
 $-14 - 4$
 $5y = 5$
 $5y = 5$
 $5y = 1$

11. ART Kara spends \$16 on tubes of paint and disposable brushes for an art project. Each tube of paint costs \$3, and each disposable brush costs \$.50. Kara purchases twice as many brushes as tubes of paint. Find the number of brushes and the number of tubes of paint that she purchases.

$$X = \pm paints$$

 $Y = \pm brushes$
 $EQ'S: 3x + .50Y = 16$
 $2x = Y$

Solve (substitution is the easiest method)

$$3x + .50(ax) = 16$$

 $4x = 16$
 $x = 4$

(Kara bought 4 paints and 8 brushes)

7.3 Solve Linear Systems by Adding or Subtracting

EXERCISES

17. 4y = 11 - 3x

Solve the linear system using elimination.

@FIND X:

C: -4(1)+-2 =-6

C: 4(1)-5(-2)=14

$$3x+4y=11 \longrightarrow 3x+4y=11 \downarrow^{+}$$

$$-1(3x+2y=-5) \longrightarrow -3x-2y=5 \downarrow^{-}$$

$$\frac{2y}{2}=\frac{16}{2} \quad (y=8)$$

$$3 \frac{\text{Find } X:}{3x+2(8)} = -5$$

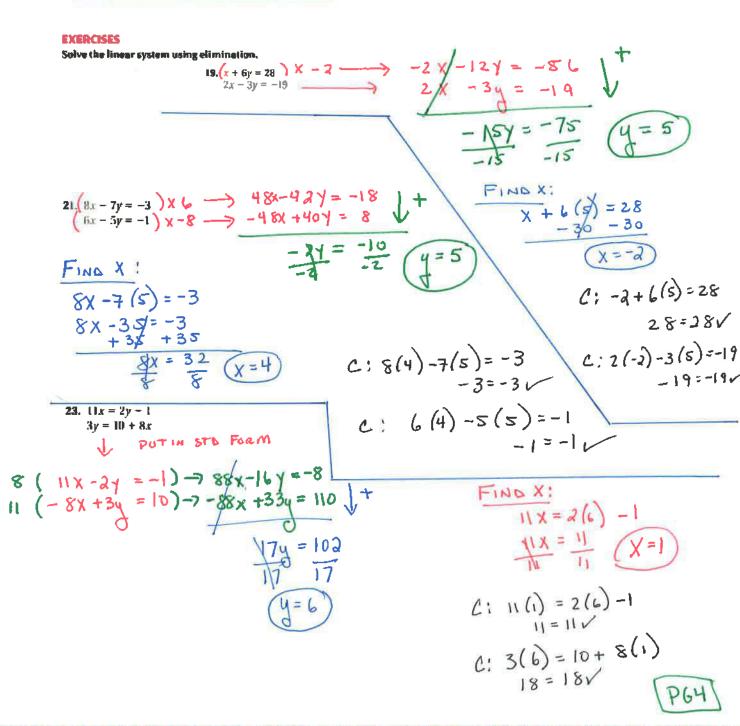
$$-10 \frac{3}{2} = -21$$

$$\boxed{X=-21}$$

$$\boxed{X=-7}$$

$$6:4(8) = 11-3(-7)$$
 $6:3(-7)+2(8) = -5$
 $3\lambda = 32\sqrt{-5}=-5$

7.4 Solve Linear Systems by Multiplying First



24. CAR MAINTENANCE. You pay \$24.50 for 10 gallons of gasoline and 1 quart of oil at a gas station. Your friend pays \$22 for 8 gallons of the same gasoline and 2 quarts of the same oil. Find the cost of 1 quart of oil.

Costof gas is \$2.25/GAL and oil is \$2/QT

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7.5 Solve Special Types of Linear Systems

EXERCISES

25. x = 2y = 31.5x - 3y = 0

Tell whether the linear system has one solution, no solution, or infinitely many solutions. Explain.

28.
$$x + y = 8$$

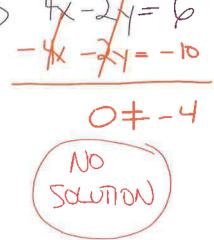
$$x + y = y$$

$$-x + y + y$$

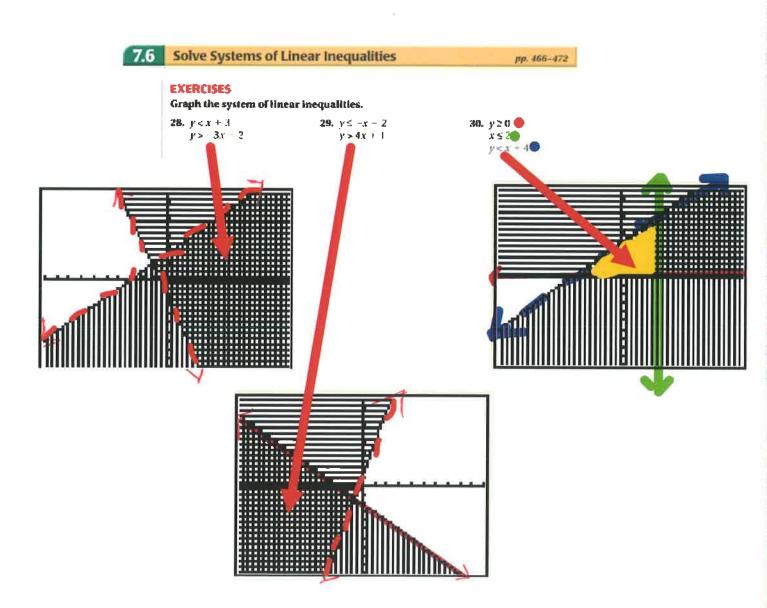
$$-x + y = y$$

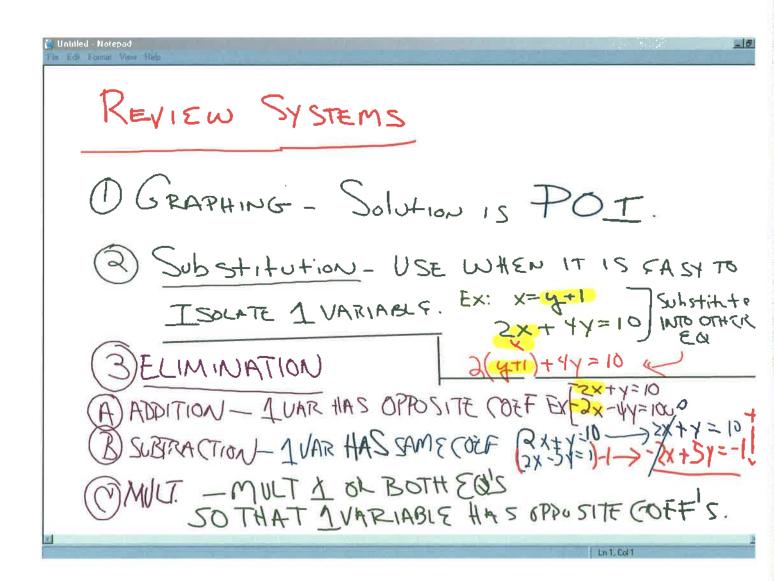
$$-x + y + y$$

$$-x + y + y +$$

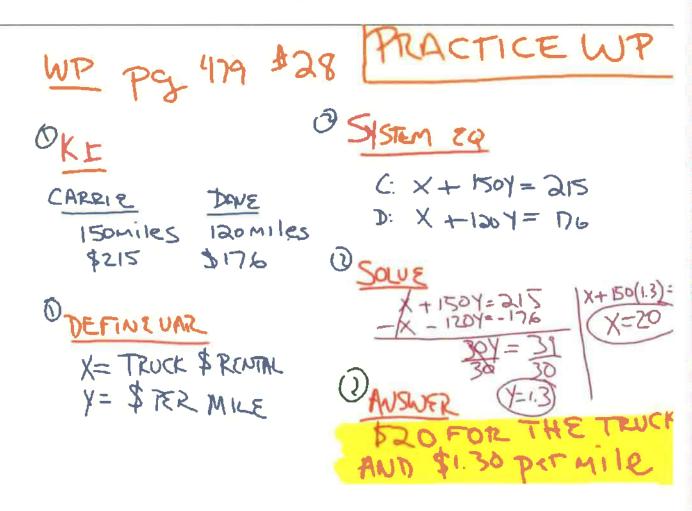


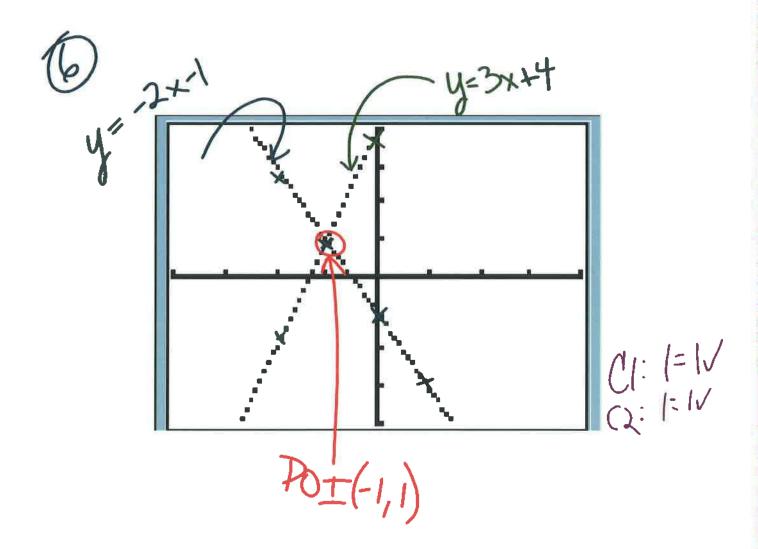






Classwork: CH7 Review WP page 479 #28 and page 475 #'s 6, 8, 10, 14, 20, 22





Solve Linear Systems by Substitution

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