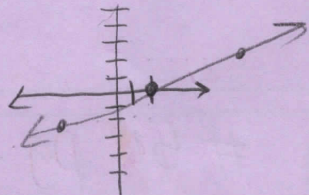
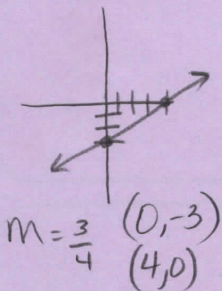


PARTNER MATH

A Graph Each Equation
Show the x; y intercepts state slope.

1) $y = \frac{3}{4}x - 3$ 2) $4x - 5y = 8$

x y $m = -\frac{4}{5}$ $m = \frac{4}{5}$



B Pg. 203
Solve completely Show Work
#20 State Conditional, inconsistent or an Identity

$$2x - 4(5x + 1) = 3x + 17$$

$$2x - 20x - 4 = 3x + 17 \quad \text{check}$$

$$-18x - 4 = 3x + 17 \quad -2 - 4(-4) = -3$$

$$+18x \quad +18x \quad -2 + 16 = 14$$

$$-4 = 21x + 17 \quad 14 = 14$$

Conditional

$x = -1$

C Pg. 203
Solve Show Work
State Conditional, Inconsistent or Identity

#31 Conditional

$$\frac{5}{x+3} + \frac{1}{x-2} = \frac{8}{x^2 + x - 6}$$

get common den

$$\frac{5(x-2)}{(x+3)(x-2)} + \frac{1(x+3)}{(x-2)(x+3)} = \frac{8}{(x+3)(x-2)}$$

$$\frac{5x-10}{(x+3)(x-2)} + \frac{(x+3)}{(x+3)(x-2)} = \frac{8}{(x+3)(x-2)}$$

$$5x - 10 + x + 3 = 8$$

$$6x - 7 = 8$$

$$+7 + 7$$

$$6x = 15$$

$$x = \frac{5}{2}$$

D Pg. 203 Same Directions
#32 $\perp = \frac{0(x+5)}{1(x+5)}$ (common den)

$$\frac{1}{x+5} = \frac{0}{x+5}$$

because $1 \neq 0$

$$1 \neq 0$$

No Solution
Inconsistent

$\emptyset \approx \{ \}$

E Do Your 4 Steps
#38 pg. 204

① Plan 1
\$15 Monthly
\$.05 per text

Plan 2
\$5 Monthly
\$.07 per text

$x = \#$ text Messages

$$15 + .05x = 5 + .07x$$

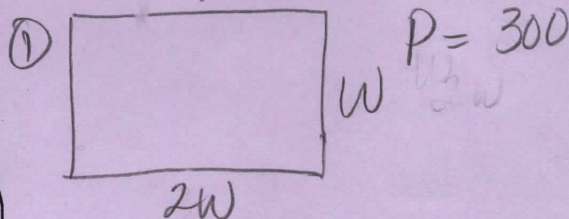
$$\begin{array}{r} 15 + .05x \\ - .05x \\ \hline 15 = 5 + .02x \\ - 5 \\ \hline 10 = .02x \end{array}$$

$$\frac{10}{.02} = \frac{.02x}{.02}$$

$$500 = x$$

④ If you text 500 times Plan 1 will cost the same as Plan 2.

F #43 pg. 135



$$② 2w + 2w + w + w = 30$$

$$③ \frac{6w}{6} = \frac{300}{6}$$

$$w = 50$$

④ The Soccer field is 50ft by 100ft

G

#10 pg. 133

$X + 24$

$$X = 1^{\text{st}} \#$$

$$X + 24 = 2^{\text{nd}} \#$$

$$\text{Sum } 58$$

$X + X + 24 = 58$

$$2X + 24 = 58$$

$$\begin{array}{r} -24 \quad -24 \\ \hline \end{array}$$

$$\frac{2X}{2} = \frac{34}{2}$$

$X = 17$

First #
15 17
Second #
10 41.

Check
 $17 + 41 = 58 \checkmark$

H

#48

pg. 204

$(8 - 3i) - (17 - 7i)$

$-9 + 4i$

I

#49 pg. 204

$4i(3i - 2)$

$$12i^2 - 8i$$

$$\begin{array}{r} \uparrow -1 \\ \hline \end{array}$$

$-12 - 8i$

J

#51 pg. 204

$(3 - 4i)^2$

$(3 - 4i)(3 - 4i)$

$$9 - 12i - 12i + 16i^2$$

$$\begin{array}{r} \uparrow -1 \\ \hline \end{array}$$

$$-5 - 24i$$

$$\begin{array}{r} -16 \\ \hline \end{array}$$

K

#53 pg. 204

CHALLENGE

$$6(5 - i)$$

$$(5 + i)(5 - i)$$

$30 - 6i$

$$25 - 5i + 5i - i^2$$

$$\begin{array}{r} \uparrow (-1) \\ \hline \end{array}$$

$$\frac{30 + 6i}{26}$$

$$z = \frac{30}{26} + \frac{6i}{26}$$

$$\frac{15}{13} + \frac{3i}{13}$$

$$\frac{15 + 3i}{13}$$

L

#55 pg. 204

CHALLENGE

$\sqrt{-32} - \sqrt{-18}$

$\sqrt{-16}\sqrt{2} - \sqrt{-9}\sqrt{2}$

$4i\sqrt{2} - 3i\sqrt{2}$

like terms

$i\sqrt{2}$