71.

$$\gamma = 1$$

 $(6. (1, 5) m = 3)$
 $\gamma - \gamma = m(x - x_1)$
 $\gamma - 5 = 3(x - 1)$

70.
$$(3.4)$$
 $-6x-12y=11$
 $M=-\frac{1}{2}$ $+6x$ $+1$
 $y-y=m(x-x)$ $-\frac{12}{-12}y=\frac{6x+1}{-12}$
 $y-4=-\frac{1}{2}(x-3)$ $y=-\frac{1}{2}x$

+6x +6x

 $\frac{-12y}{-12} = \frac{6x+11}{-12}$

3.2 Word Problems

Number Problems

Example: The sum of 3 consecutive integers is 90. What are the integers?

Example: Find a number such that four times the difference of the number and

111 is 364.

111 is 364.

$$4(x-111) = 364$$
 $4(x-111) = 364$
 $4(x-111) = 364$

Money and Percentage Problems

Example: The sale price of a coat is \$48. If the sale price is 20% off the original price, what was the original price?

Original - original · Sale? = Salepiñal ·
$$\times$$
 - \times · .2 = 48
 $1\times$ - .2x = 48
 $1\times$ - $1\times$

Example: As a lawyer, you earn a \$500 retainer (flat fee) plus \$22 per hour. If you made \$797, how many hours did you work?

$$500 + 27x - 797$$
 $-500 - 500$

$$\frac{22x - 291}{22} \left(x - 13.5 \text{ hrs.}\right)$$

Geometry Problems

Example: Find the measure of each angle:

Example. Solve for x. Assume the triangles are similar.

Homework: p.182, 62 - 90 even

Study for quiz!