

Algebra II

3-5

Function Word Problems

$$f(x) = mx + b$$

x -

f -

m -

b -

1) A photocopying machine purchased new for \$4500 loses \$900 in value each year.

- a. Find the book value of the machine after 18 months.
- b. When will the book value be \$1200?

input (x):

output (y or f):

rate of change (m):

start value (b):

$$f(x) = mx + b$$

- 5) Allied Airlines charges \$90 for a ticket to fly between two cities 260 mi apart and \$150 for a ticket to fly between two cities 500 mi apart. At this rate, what would it cost for a trip between two cities 1000 mi apart?

input (x):

output (y or f):

rate of change (m):

start value (b):

Assignment:

Pg. 150

1-10 all