Name: _____

Date:: _____

Algebra Quiz, Chapter 1.2

32. Given that $f(x) = \dfrac{x}{2 - x}$, find each of the following.

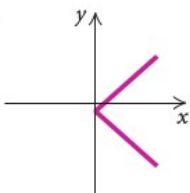a) $f(2)$ b) $f(1)$
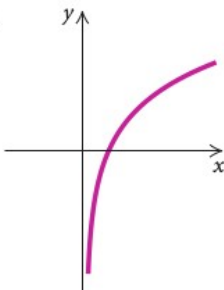
c) $f(-16)$ d) $f(-x)$

e) $f\left(-\dfrac{2}{3}\right)$

Determine if each of these graphs represent a *function*:
(A simple 'Yes' or 'No' suffices)
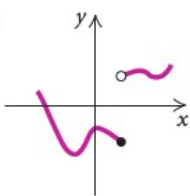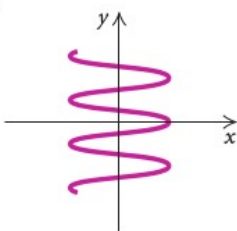
60.

62.
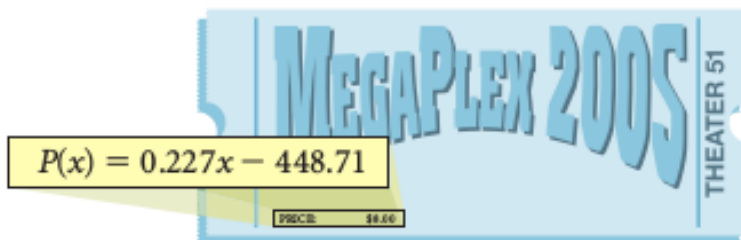

64.

66.

72. *Average Price of a Movie Ticket.* The average price of a movie ticket, in dollars, can be estimated by the function P given by

$$P(x) = 0.227x - 448.71$$

where x is the year. Thus, $P(2005)$ is the average price of a movie ticket in 2005. The price is lower than what might be expected due to lower prices for matinees, senior citizens' discounts, and other special prices.

a) Use the function to predict the average price in 2008 and 2010.

b) When will the average price be $8.50?