

Examples of the Use of Function Notation:

- 1) The equation V = -0.08d + 50 represents the volume (V litres) of gas remaining in the vehicle's tank after travelling *d* kilometers. The gas tank is not refilled until it is empty. DEPENDENT ; VOLUME
- a) Write the equation in function notation.

INDEPENDENT: DISTANCE

- b) Determine the value of V(600). What does this represent?
 - V(600) = -0.08(600) + 50 AFTER TRAVELING V(600) = -48 + 50 600 km, 2 LITRES V(600) = 2 0F GAS REMAIN IN V (600) = 2

) = -0.082 + 50

THE TANK

c) Determine the value of d when V(d) = 26. What does this represent?

300 km =

Math 10 Foundations

- EQUATION WRITTEN IN 2 VARIABLES.

- 2) The equation C = 25n + 1000 represents the cost (*C* dollars) for a meal, where *n* is the number of people attending.
- a) Write the equation in function notation.

b) Determine the value of
$$C(100)$$
.
 $Cost$
 $C(100) = 25(100) + 1000$
 $C(100) = 25(100) + 1000$
 $C(100) = 2500 + 1000$
 $C(100) = 2500 + 1000$
 $C(100) = 3500$
 $C(100) = 3500$

c) Determine the value of n when
$$C(n) = 5000$$
.
FIND #
OF REDPLE
IF COST B
\$5000
160 PEOPLE ATTENDED
AT A COST OF \$5000.
C(n) = 250 +1000
C(n) = 250 +1000
-1000
U000 = 250
160 = 0
Worksheet