Name _____ Date _____

Comparing Properties of Two Functions - Guided Lesson

1) Compare the two linear functions listed below and determine which has a negative slope.

Function 1:

Alan starts with $30 this week. He spends $5.30 per week. Let y be the amount remaining as a function of the number of weeks, x.

x	y
0	30
1	24.70
2	19.40
3	14.1

Function 2:

The car shop rents a car for $10 per day. It also collects a non-refundable fee of $30.00. Write the rule for the total cost (c) of renting a car as a function of the number of days (d). c=10d + 30

2) Compare the following functions to determine which has the greater rate of change.

Function 1: y = 2x + 6

Function 2:

x	-2	0	4
y	-4	-2	2

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3) Compare the two linear functions listed below and determine which has a greater slope.

Function 1: Pocket money

Mike has $25. His mother gives him $5 per week. Let y be the amount remaining as a function of the number of weeks, x.

x	y
0	25
1	30
2	35
3	40

Function 2: Burger

Ronny has $20 at the start of the day. He spends $2 on a burger. Write the rule for the total cost (c) to purchase a burger as a function of the number of the day (d). $c = 20 - 2d$