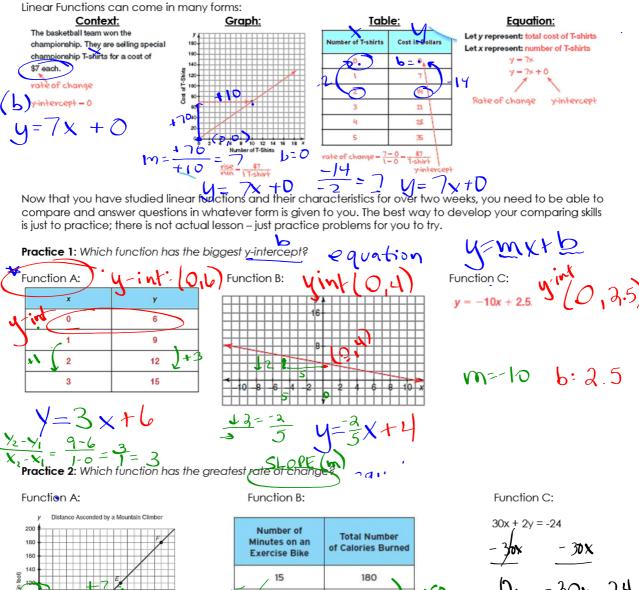
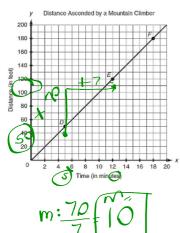
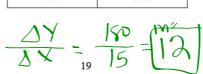
Foundations of Algebra Unit 5: Linear Functions Notes

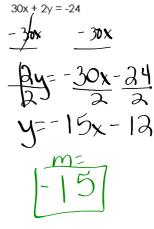
Day 16 - Comparing Linear Functions





	Number of Minutes on an Exercise Bike	Total Number of Calories Burned	
	15	180	~ ~
+1	30	360	180
	45	540	
	60	720	



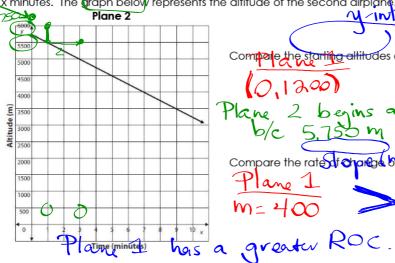


Yz-Y1 360-180 Xz-X1 30-180 A Chreatest ROC (slope) is based off of # ... we don't care if it's hegative.

Unit 5: Linear Functions Foundations of Algebra

Notes

Practice 3: Two airplanes $\mathbf{a}_{\mathbf{i}}$ e in flight. The function $f(\mathbf{x}) = 400\mathbf{x} + 1200$ represents the altitude, $f(\mathbf{x})$, of Plane 1 after x minutes. The graph below represents the altitude of the second airplane.



Compare the starting altitudes of the Woodanes?

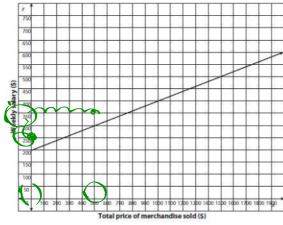
Plane 2 begins at a higher altitude b/c 5.750 m is greater than 1,200 m.

Compare the rate of charge brithe two planes.

Y=mx+b

Practice 4: Your employer has offered two pay so ales for you to choose from. The first option is to receive a base salary of \$250 a week plus 15% of the price of any merchandise you sell. The second option is represented in the graph below.





a. Create an equation to represent the first option for one week's worth of pay. 15 x + 250

b. Create an equation to represent the second option for one week's worth of play. $\chi + 200$ 400 400 400

c. Which option has a higher base salary? Explain how you know.

d. Which option has a higher rate for selling merchandise? Explain how you know.

Option Bhas a higher rate for selling merchandis. 15 < 2