Who Saves More?

1. Devin and Dustin are trying to save money. Dustin already has saved 30 dollars. Devin has saved up 50 dollars. They both receive an allowance from their parents every week. Dustin gets 15 dollars a week. Devin’s parents give him 25 dollars every two weeks but he gives his little sister 5 dollars every time he gets allowance. Create equations for Dustin and Devin’s situations in terms of Total money saved, T, and weeks saved, w.

Devin’s Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dustin’s Equation:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Using Geogebra graph Devin’s Equation and Dustin’s Equation. Sketch graph below

After how many weeks will Devin and Dustin have the same amount of money?

Whose equation will save the most money?

After 2 weeks?

After 8 weeks?

After n weeks?