Name $\qquad$ Date $\qquad$

## Lesson 2: Interpreting Rate of Change and Initial Value

## Exit Ticket

In 2008, a collector of sports memorabilia purchased 5 specific baseball cards as an investment. Let $y$ represent the card's resale value (in dollars) and $x$ represent the number of years since purchase. Each of the cards' resale values after $0,1,2$, 3 , and 4 years could be modeled by linear equations as follows:

Card A: $y=5-0.7 x$
Card B: $y=4+2.6 x$
Card C: $y=10+0.9 x$
Card D: $y=10-1.1 x$
Card E: $y=8+0.25 x$

1. Which card(s) are decreasing in value each year? How can you tell?
2. Which card(s) had the greatest initial values at purchase (at 0 years)?
3. Which card(s) is increasing in value the fastest from year to year? How can you tell?
4. If you were to graph the equations of the resale values of Card B and Card C, which card's graph line would be steeper? Explain.
5. Write a sentence explaining the " 0.9 " value in the "Card $C$ " equation.
