Exponential	growth/decay
Video Notes	

http://www.youtube.com/watch?v=QJsKTTkljFk (6:03 minutes)

As you watch the video, follow along working the problems as he does in the video. Decay-

1. Jaime plans to purchase a car that depreciates (loses value) at a rate of 12% per year. The initial cost of the car is \$19,000. How much money will the car be worth after 3 years?

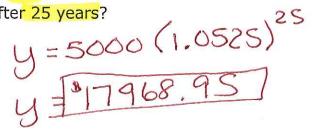
$$Q = 19,000$$

 $b = (1 - 7) = (.88)$
 $1 - .12 = .88$

2. Bethany is opening a savings account at her local bank. She invests an initial amount of \$5000. Her bank gives $5\frac{1}{4}$ % interest on her account each year. How much money will Bethany have after 25 years?

$$0 = 5000$$

 $0 = (1+r) = 1.0525$
 $5.25 \rightarrow 0.0525$
 $1 + 0.0525 = 1.0325$



X=25

How much interest has Bethany accumulated over that time?

