IB Pre HL Growth and Decay Now with Logs!!

Warm up:

1) Solve for x: 

2) Find a and b given that  and 

Example 1)

The weight of a radioactive substance remaining

after *t* days is given by  grams.

a. What is the weight remaining after 6 days?

b. After how long with the remaining weight be 100 grams?

Example 2)

a) Stan has $5000 invest in an account that pays 5.2% annual interest rate compounded annually. Find how long (nearest month) it will take for her investment to reach $20,000.

b) Stan has $5000 invest in an account that pays 5.2% annual interest rate compounded monthly. Find how long (nearest month) it will take for her investment to reach $20,000.