In exercise 1, tell whether the function is an exponential growth function or exponential decay function, and find the constant percentage rate of growth.

17. P(t)=3.5\*1.09t

a. Exponential Decay, 3.5%

b. Exponential Decay, 9%

c. Exponential Growth, 9%

d. Exponential Growth, 10%

In exercises 2-3, determine the exponential function that satisfies the given conditions.

18. Initial value=5, increasing at a rate of 17% per year

a. 5\*1.17^x

b. 5\*1.017^x

c. 5\*0.83^x

d. 5\*0.983^x

24. What is the constant percentage growth rate of P(t) = 1.23\*1.049^t?

a. 49%

b. 23%

c. 4.9%

d. 2.3%

**Answer Sheet**

1. C

2. D

3. B

5. D

6. B

7. A

8. B

9. C

10. D