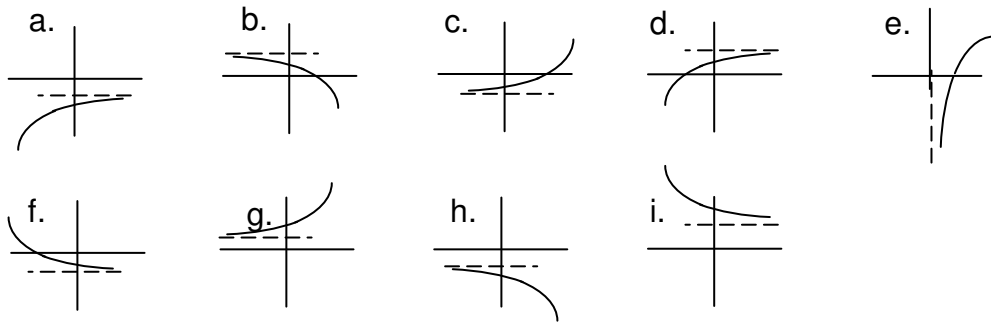


1. Match



**Group 1**

$y = 10,000(1.04)^x + 5000$  \_\_\_\_\_

$y = -10,000(1.04)^x + 5000$  \_\_\_\_\_

$y = 10,000(1.04)^{-x} + 5000$  \_\_\_\_\_

$y = -10,000(0.97)^x + 5000$  \_\_\_\_\_

**Group 3**

$y = -10,000(1.04)^{-x} - 5000$  \_\_\_\_\_

$y = 10,000(0.97)^x + 5000$  \_\_\_\_\_

$y = 5000 - 10,000(1.04)^x$  \_\_\_\_\_

$y = 10,000(1.04)^{-x} + 5000$  \_\_\_\_\_

**Group 2**

$y = 10,000(1.04)^x - 5000$  \_\_\_\_\_

$y = -10,000(1.04)^x - 5000$  \_\_\_\_\_

$y = 10,000(1.04)^{-x} - 5000$  \_\_\_\_\_

$y = 10,000 \cdot \log(x)$  \_\_\_\_\_

**Group 4**

$y = 5000 - 10,000(1.04)^{-x}$  \_\_\_\_\_

$y = 10,000(1.04)^x - 5000$  \_\_\_\_\_

$y = -5000 - 10,000(0.97)^x$  \_\_\_\_\_

$y = 10,000(0.97)^x - 5000$  \_\_\_\_\_

2. Sketch each of the following. Indicate the sign of the y-intercept and the end-behavior .

$y = 10,000(1.04)^x + 50,000$

$y = -10,000(1.04)^x + 50,000$

$y = 10,000(1.04)^{-x} + 5000$

$y = -10,000(0.97)^x + 5000$

$y = 10,000(1.04)^x - 5000$

$y = -10,000(1.04)^x - 50,000$

$y = 10,000(1.04)^{-x} - 5000$

$y = 10,000(0.97)^x - 5000$

$y = -10,000(1.04)^{-x} - 50000$

$y = 10,000(0.97)^x + 5000$

$y = 5000 - 10,000(1.04)^x$

$y = 50,000 - 10,000(1.04)^{-x}$

$y = 10,000(1.04)^x - 50,000$

$y = -5000 - 10,000(0.97)^x$

MAC 1140  
Ch 5 Sec 2 – 3

Exponential and  
Logarithmic Graphs

Instr: Jamieson

3/25/2010

Answers:

1.

Groups

1.	2.	3.	4.
g	c	a	d
b	a	i	c
i	f	b	a
d	e	i	f

2.

