Snake Activity	Name
Slope Intercept Snake	
1)How long is the snake when it is born?	b =
2)What is the rate of growth for this snake?	cm every months.

3) What is the y intercept of the graph of for the growth of this snake?

4) What is the slope of the graph of for the growth of this snake?

5) What is an equation to represent the growth of this snake?

6)Write your equation in standard form.



7)How long will this snake be after 8 months.

8)How long will it take for the snake to grow to 82 cm?

9)What is the X intercept for your equation above?

10)What might the X intercept tell you about this snake?

11)For each of the following snakes tell what you know about them.

a)
$$y = \frac{3}{5}x + 18$$

b) $y = \frac{4}{3}x + 20$
c) $y = \frac{1}{2}x + 30$

12) Put each of the equations above in standard form.

13) Which of the snakes above will be longest after one year? Why do you think so?

Discuss with students other situations with slopes.

Examples:

1) Pay

2) Savings

- 3) Cell Phone -Base amount plus .\$.25 for overage minutes
- 4) Filling car with gas
- 5) speed
- 6) Hair growth
- 7) Weight loss
- 8) Automatic withdrawals
- 8) Gas in the tank as you drive.

Snake Activity	Name	
Point Slope Snake		
1) How old is this snake? mor	nths	
2) How long is this snake? cm		
3) What is the rate of change for this snake?	cm every months	
4) What is the growth equation for this snake?		

5) How long was this snake when it was born?

6)For each of the following snakes tell what you know about them.

a)
$$y-15 = \frac{1}{5}(x-5)$$

b)
$$y - 42 = \frac{5}{2}(x - 8)$$

6)Find the growth equation for each of the following snakes and their lengths at birth.

a) (10months, 18cm) grows 3cm every 5 months

b) (1year, 28cm) grows 1cm every 4 months

7) What is the gestation period for each of the snakes in #6. a)

b)

Snake Activity

Name _____

Two Point Snake

1) How old is this snake? _____ months

2) How long is this snake? _____ cm

3) How old is this snake? _____ months

4) How long is this snake? _____ cm

5) What order pairs represent this snake?

6) What is the formula we would you to find the growth rate of this snake?

7) What is the rate of change for this snake? _____ cm every _____ months

8)What is the growth equation for this snake?

9) What is the growth equation in slope intercept form?

10) How long was this snake when it was born?

11) What is the growth equation of this snake in standard form?

12) What is the gestation period of this snake?

Find the growth equation for each of the following snakes.

a) (4 months, 21cm) (26 months, 54cm)

b) (10 months, 9cm) (14months, 11cm)