

## Module 0

Pg. 11

1. 24
2. 50
3. 81
- 7.a 32
- 7b -16
- 8a. 0
- 8b. 4
12. true
13. false  $-13 \neq -9$

Alg. 1  
Sem. 1  
text review

## Module 1

Pg. 75

4.  $9y^3 + 5y$
5.  $8x + 3y$
6.  $9m^2p + 12mp - 4m^2 + 8$
12.  $18z + 57$
14.  $20x - 18$

pg. 177

4.  $x \geq 8$
5.  $x < -8$
6.  $x < 8$
- 7a. from #6
- 7b. from #4
- 7c. from #5

pg. 178

1.  $t = 3$
2.  $x = 3$
6.  $s = 13$
11.  $w = 2.6$

pg 245

1.  $A = -6$
2.  $a = 0.9$
5.  $f = 7/8$  or  $.88$
14.  $s \geq -2$
15.  $-2 < x < 4$
16.  $-7.5 < d \leq 31$
18.  $V = lwh$  for  $h$
21.  $6x + 3y = 21$  for  $y$
23. \$2.40
24. 700 people
26. 156  $2/3\%$  or 156.67%
27. 200
- 44b. 30 mo

Graph: Solid dot, shaded to right

Graph: two open dots, shaded between -2 and 4

Graph: open dot on -7.5, solid on 31, shaded between numbers

5.  $y = -1x + 15$

7.  $y = 1/2x + 12$

11a. (2.1, 59.24) and (3.7, 70.08)

11b. 6.78

11c. *change in time must wait as length of eruption changes*

11d.  $y = 6.78x + 45.01$

14.  $y - 5 = -3/5(x - 5)$

pg 384

4.  $y > 2$

6. iv

16a.  $y = -1.5x + 0.5$

### Module 4

pg 521

1.  $24m^9$

2.  $y^4/2$

3.  $7y^4/3x$

4.  $4b^3$

5.  $1/v^{24}$

22.  $x^5y^5$

23.  $3,600m^4n^6$

24.  $10u^{12}v^3/9$

### Module 5

pg 407

2. 

3a. 1.045

3b. \$3,276.07

9a. 

9b.

pg 416

6a. \$363,025.42

8a.

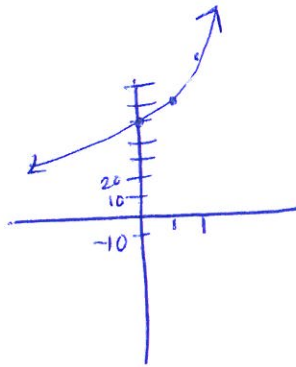
8b.

13a.  $y = 2,500(0.98)^x$

13b. about 2,043 students

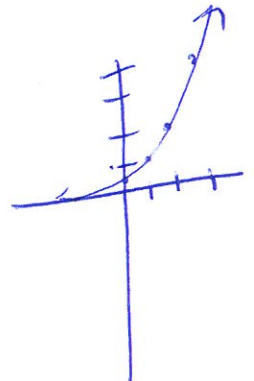
2.)

x	y
0	50
1	60
2	72
3	86.4



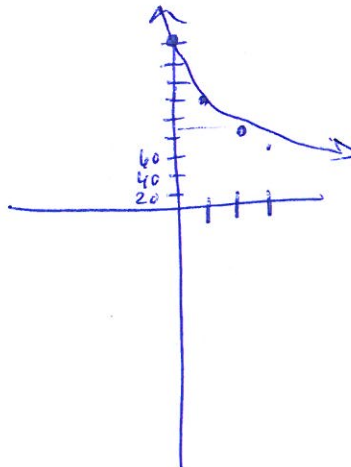
4.)

x	y
0	5
1	1
2	2
3	4
4	8



8.)

x	y
0	160
1	120
2	90
3	67.5



pg 306

- 11.  $m = 16$
- 12.  $p = 61/9$
- 16. 112.5 min
- 17. 570 min

### Module 2

pg 331

4. 6-7pm and 7-8pm

- 5. increase
- 6. 0 people/hour
- 7. decrease

14.

a	+	away
b	0	still
c	-	to
d	+	away

pg 429

- 6a.  $0 \leq x \leq 8$
- 6b.  $0 \leq y \leq 4$
- 7a.  $-5 \leq x \leq 5$
- 7b.  $0 \leq y \leq 5$
- 8. never
- 9. C
- 10a. 2.5 mi
- 11. No
- 12. No
- 13c.  $\mathbb{R}$  all reals
- 13d.  $\{y: y > 0\}$

pg 436

- 7a. \$45
- 7b. \$135
- 7c. 20
- 10a. 42
- 10b. 18

### Module 3

pg 337

- 5. 5 or 5/1
- 6.  $-1/2$
- 16a. m
- 16b. l
- 16c. n

pg 395

- 50.
- 51.
- 52.

pg 364

50

51

52

$$7x - 5y = 70$$

$$-5y = 70 - 7x$$

$$y = -14 + \frac{7}{5}x$$

