

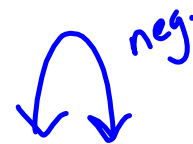
## Review

- 1. B
- 2. C
- 3. C
- 4. A
- 5. C
- 6. D



## Practice

- 7. B
- 8. A
- 9. C
- 10. A
- 11. B
- 12. B
- 13. A



14. D

15. A

16. B

17. A

18. C

19. A

$$-(1)^3 - 3(1)^2 + 1 - 4 = -7$$

20. D

<u>Section 2</u>		
1.	Cubic	Quad.
	1, 2, or 3	0, 1, 2
	-1	21
	$x \in \mathbb{R}$	$x \in \mathbb{R}$
	$y \in \mathbb{R}$	$y \geq 3, y \in \mathbb{R}$
	0, 2	1
	$\mathbb{Q} \rightarrow \mathbb{Q}$	$\mathbb{Q} \rightarrow \mathbb{Q}$

	Cubic	Quadratic
	3	2
	+	+
y-int/ constant	3	6
	Q3 → Q1	Q2 → Q1
	3	6
	$x \in \mathbb{R}$	$x \in \mathbb{R}$
	$y \in \mathbb{R}$	$y \geq -5, y \in \mathbb{R}$

3.

Hose A	3	$\frac{1}{3}$
Hose B	x	$\frac{1}{x}$
Both	2	$\frac{1}{2}$

$$\frac{1}{3} + \frac{1}{x} = \frac{1}{2}$$

$$\boxed{CD: 6x}$$

$$\frac{2x}{6x} + \frac{6}{6x} = \frac{3x}{6x}$$

$$2x + 6 = 3x$$

$$2x - 3x = -6$$

$$-x = -6$$

$$x = 6$$

Hose B takes 6 hrs

Feb. 6 (finish story Problem sheet)

1.  $x = 2$  or  $x = \frac{1}{2}$
2. 2.2 hrs
3. Hubert 10  
Gerard 15
4. 20 min Zack  
30 min Cameron
5. Lori 6 hrs  
Cheryl 12 hrs
6. 15 min
7. 6 min (max=3min)
8. 10 min
9. Chris 7.5 hrs  
Pat 15 hrs
10. 50
11. 180