Beginning Algebra	Name:
Study Guide 1	Class:
Due Date:	Score:
No Work	: ⇔ No Points
$\textbf{Use Pencil Only} \Leftarrow$	Be Neat & Organized
1. (2 points) Evaluate: $5^3 - 10^2 + \sqrt{100}$	
	1
2. (2 points) Evaluate: $10(5^3 - 2^5)$	
	2
3. (2 points) Evaluate: $\frac{4^2 + 3 \cdot 5 + 1}{2^4}$	
	3
4. (3 points) Evaluate: $(7^2 + 1)^2 \div (5^3 - 1)^2$	(-5^2)
	4
5. (2 points) Find the area of a triangle feet.	e whose base is 160 feet with the height of 5
	5

6. (2 points) Translate: 5 less than twice the square of some number. Use $\mathcal X$ for the unknown.

6. _____

7. (3 points) Evaluate: $2^2 + 3^3 - 4^2 - 3 \cdot 5$

7. _____

8. (3 points) Evaluate: $\sqrt{13^2 - 12^2} \cdot \sqrt{3^2 + 4^2}$

8. _____

9. (3 points) Evaluate: $\frac{4^2-3\cdot 5-1}{2^4-2\cdot 8}$

9. _____

- 10. Consider a rectangular lot whose length is 32 feet with the width of 15 feet.
 - (a) (2 points) Find its area.

(a) _____

(b) (2 points) Find its perimeter.

(b) _____

11. (2 points) Evaluate: $(-6)^2 - 3|-12|$

11. _____

- 12. A square garden has a side of 4 meters.
 - (a) (2 points) Find its area.

(a) _____

(b) (2 points) Find its perimeter.

(b) _____

13. (2 points) Evaluate: $(2^1 - 3^2)^2$

13. _____

14. (2 points) Evaluate: $\frac{3 \cdot (-2)^3 - 6 \cdot 4}{-5 \cdot 2 + (-3)^2}$

14. _____

15. (2 points) Evaluate: $-3\frac{2}{3} \div 2\frac{1}{5}$

15. _____

16. (2 points) Evaluate: $\frac{3}{14} - (\frac{-5}{49})$

16. _____

17. (2 points) Evaluate: $\left(\frac{2}{3} - \frac{3}{2}\right)^3$

17. _____

18. (2 points) Evaluate $b^2 - 4ac$ for a = -2, b = -5 and c = -3.

18. _____

19. (2 points) Evaluate $(x^y - y^x)^{101}$ for x = 2 and y = 3.

19. _____

20. (2 points) Evaluate $\frac{x^2 + 2x}{x^2 - 4}$ for x = -2.

20. _____

21. (2 points) Evaluate $\sqrt{x^2 - y^2}$ for x = -10 and y = -8.

21. _____