Beginning Algebra
Study Guide 5
Due Date: $\qquad$

Name: $\qquad$
Class: $\qquad$
Score:

No Work $\Leftrightarrow$ No Points
Use Pencil Only $\Leftrightarrow$ Be Neat \& Organized

1. (3 points) Mr. Flores purchased a brand new telephone for his office from a local store for $\$ 135$. Find the actual price of the phone if the sale's tax rate is $8 \%$.
2. 
3. (3 points) The sum of three consecutive odd integers is 11 more than twice the second one. Find all three consecutive integers.
4. $\qquad$
5. (3 points) In triangle $A B C$, angles $A$ and $B$ are complementary angles. The measure of angle $A$ is $10^{\circ}$ less than four times the measure of $B$. Find the measure of all three angles.
6. $\qquad$
7. (3 points) In triangle $A B C$, two sides are equal, and the third side is 3 cm shorter than the sum of equal sides. The perimeter of this triangle is 25 cm . Find the measure of all three sides.
8. 
9. (3 points) In triangle $A B C$, the measure of all three angles are three consecutive integers. Find the measure of all three angles.
10. $\qquad$
11. (3 points) In triangle $A B C$, the measure of all three angles are three consecutive even integers. Find the measure of all three angles.
12. $\qquad$
13. (3 points) In a survey of 800 people, 50 were left-handed. At this rate, how many left-handed people are there in a gathering of 18,000 people?
14. 
15. (2 points) Solve $C=\pi d$ for $\pi$.
16. 
17. (2 points) Solve $V=\pi r^{2} h$ for $h$.
18. 
19. (3 points) Solve $V=\frac{4 \pi r^{3}}{3}$ for $\pi$.
20. $\qquad$
21. (3 points) Solve $-5 x+3 y=-15$ for the $y$ variable.
22. 
23. (2 points) Solve $3 x+2 y=0$ for the $y$ variable.
24. 
25. (2 points) Solve $y+4=-\frac{2}{3}(x-6)$ for the $y$ variable.
26. 
27. (3 points) Solve $y-2=\frac{3}{2}(x-3)$ for the $y$ variable.
28. 
29. (2 points) Write $\{x \mid-1 \leq x<2\}$ in interval notation, and graph it below.
30. $\qquad$

31. (2 points) Write ( $-1.5, .5]$ in set-builder notation, and graph it below.

32. (2 points) Write $\{x \mid x>-2\}$ in interval notation, and graph it below.

33. (2 points) Write $(-\infty, 1]$ in set-builder notation, and graph it below.
34. 


19. (2 points) Write $[-2,1]$ in set-builder notation, and graph it below.
19. $\qquad$

20. (2 points) Write $(-1, \infty)$ in set-builder notation, and graph it below.


