You have 50min. Answer each non-graph question neatly on the line provided.

Name: $\qquad$

1. (5 points) Express the inequality $x \leq-1$ in interval notation.
2. $\qquad$
3. (5 points) Simplify $\left(-2 z^{2}\right)^{3}\left(4 z^{6}\right)$ completely.
4. $\qquad$
5. (5 points) Perform the operations $2+\frac{3}{10}-\frac{2}{15}$ and simplify completely as one fraction.
6. $\qquad$
7. (5 points) Simplify $5\left(x^{2}-3 x+5\right)-4\left(x^{2}-2 x+1\right)$ completely.
8. 
9. (5 points) Evaluate $\left(\frac{25}{36}\right)^{-\frac{1}{2}}$.
10. $\qquad$
11. (5 points) Perform the multiplication $\frac{x^{2}-25}{x^{2}-16} \cdot \frac{2 x+8}{x-5}$ and simplify.
12. $\qquad$
13. (5 points) Evaluate $\frac{3^{10} 3^{0}}{3^{7}}$ and simplify completely.
14. $\qquad$
15. (5 points) Factor $x^{2}+5 x-36$ completely.
16. 
17. (5 points) Perform the addition $\frac{1}{x+1}+\frac{3}{x}$ and simplify as one fraction.
18. $\qquad$
19. (5 points) Evaluate and simplify $\sqrt[3]{9} \sqrt[3]{24}$ completely.
20. $\qquad$
21. (5 points) Factor $49 a^{2}-16$.
22. 
23. (5 points) Multiply $(1-3 a)^{2}$ and simplify completely. Your final answer should not contain parenthesis.
24. $\qquad$
