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

| Name: | | | | |
|---|-----------------------------|--|--|--|
| 1. (5 points) Express the interval $[-6, \infty)$ in terms of inequalities. | | | | |
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| | 1 | | | |
| 2. (5 points) Simplify $\frac{5^{-1}}{5^2}$ completely, and eliminate negative exponents. | 1. | | | |
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| | 2 | | | |
| 3. (5 points) Perform the operations $(3 + \frac{1}{4})(1 - \frac{4}{5})$ and simplify completely | ly as one fraction. | | | |
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| | | | | |
| 4 (5 points) Simplify x + 1 4x(2 x) completely. Vour final engages show | 3 | | | |
| 4. (5 points) Simplify $z + 1 - 4z(2 - z)$ completely. Your final answer show | nd not contain parenthesis. | | | |
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| 5. | (5 points) | Evaluate $27^{-\frac{4}{3}}$. | |
|----|------------|--|---|
| 6. | (5 points) | Perform the multiplication $\frac{x^2-25}{x^2-x-6} \div \frac{x+5}{x+2}$ and simplify. | 5 |
| 7. | (5 points) | Simplify $(-3z^2)^3(2z^3)$ completely, and eliminate negative exponents. | 6 |
| | | | 7 |
| 8. | (5 points) | Factor $x^2 + 12x + 36$ completely. | |

8. _____

