

ALGEBRA 2 FINAL EXAM

Complete Review

1. Let $f(x) = |4x - 1| + 4$. Write a function g that represents a reflection in the x -axis and a translation up 2.
2. Solve the inequality $2|x - 4| - 1 \leq 15$.
3. Evaluate the piecewise function when $x = -1$ and $x = 3$. Then find $f(-1) + f(3)$.

$$f(x) = \begin{cases} -2x + 5 & \text{when } x < -1 \\ 3x^2 + 5 & \text{when } -1 \leq x < 3 \\ 2x + 2 & \text{when } x \geq 3 \end{cases}$$

$$f(-1) + f(3) =$$

4. Write an equation of the parabola that passes through the point $(5, -1)$ and has vertex $(2, 8)$.



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