Remote Assessment 7.2

1-4 Solve the inequality. Show your work. You may not just graph on the calculator to find a solution!

1. $|x + 5| + 2 > 11$ 1. _____

2. $-9|m + 1| - 6 \leq 93$ 2. _____

3. $x(x - 3)^3(x - 4)^4 < 0$ 3. _____

4. $2x^3 - 5x^2 + 3x \geq 0$ 4._____

5-6 Find all intercepts and asymptotes of the given function (*be sure to label as x-int, y-int, H asymptote, V asymptote).* Give end behavior. There should be NO need for a calculator!

5. $f(x) = \frac{3x^2+5x-2}{x^2-4x-5}$ 5. Intercepts _____

Asymptotes _____

End Behavior_____

6. $f(x) = \frac{4x^2-1}{x^4-16}$ 6. Intercepts_____

Asymptotes_____

End Behavior_____