

Math 29
PAL Worksheet 12

1. Solve each inequality. Give the solution using interval notation.

a. $3x^2 - 13x - 10 \geq 0$

b. $\frac{2x + 1}{x + 2} \leq 1$

c. $\frac{(2x - 1)(x + 3)}{4 - x} \leq 0$

d. $x^2 - 4x > 6$

2. What is the domain of the function $f(x) = \sqrt{\frac{3x^2 - 4x - 4}{x + 3}}$? Write your answer using interval notation.