

Solve each. Write the inequality in interval notation.

1)  $\left| \frac{3x+1}{5} \right| \geq 2$

2)  $\frac{1}{3}x - 2\left(\frac{5}{9}x + 3\right) = \frac{1}{2}(3x - 1) + \frac{5}{6}$

3)  $\frac{5x}{x+2} + \frac{2}{x} = 5$

4)  $\frac{2x-5}{x-2} - 2 = \frac{3}{x+2}$

5)  $\frac{x}{x+1} + \frac{5}{x-1} = 1$

6)  $\frac{4}{x^2-8x+12} = \frac{x}{x-2} + \frac{1}{x-6}$