

*AAT

Name: key Period: _____
Date: _____

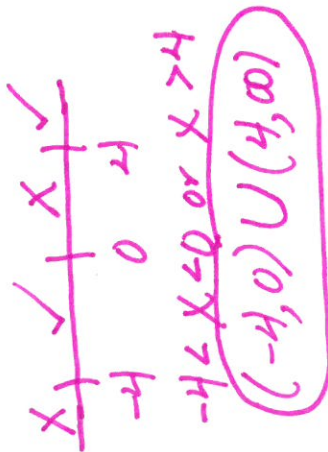
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Solve the inequality by using a sign graph and express the solutions as intervals.

1. $\frac{2x}{16-x^2} < 0$

$(4-x)(4+x)$



Solve the equation. Show all work.

2. $\frac{2}{x+5} - \frac{3}{2x+1} = \frac{5}{6x+3}$

$3(4x+5)(2x+1)$

$2(3)(2x+1) - 3(3)(x+5) = 5(x+5)$

$6(2x+1) - 9(x+5) = 5x+25$

$12x+6-9x-45 = 5x+25$

$3x-39 = 5x+25$

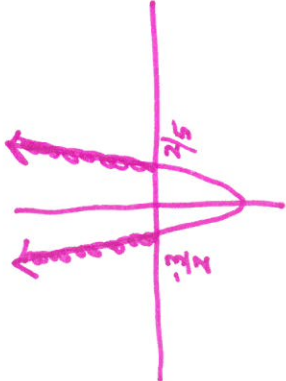
$-64 = 2x$

$x = -32$

Solve the inequality by using graphing and express the solutions as intervals.

3. $10x^2 + 11x > 6$

$10x^2 + 11x - 6 > 0$



$x < -\frac{3}{2}$ or $x > \frac{2}{5}$

$(-\infty, -\frac{3}{2}) \cup (\frac{2}{5}, \infty)$

Solve the inequality by using a sign graph and express the solutions as intervals.

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Solve the equation. Show all work.

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