

$$\frac{x^{-1/8} y^{1/4}}{x^{3/4} y^2} = \frac{x^{-1/8-3/4} y^{1/4-2}}{x^{1/2} y^2} = \frac{x^{-7/8} y^{-7/4}}{x^{1/2} y^2}$$

1

Aug 5-7:28 AM

Inequalities:
Solving & graph

① $3x+1 \geq 2x+2$
 $x+1 \geq 2$
 $x \geq 1$

② $\frac{x}{2} + \frac{x}{3} > \frac{5}{6}$
 $3x+2x > 30$
 $5x > 30$
 $x > 6$

Aug 5-8:44 AM

"and"

③ $-4 < 2x-3 < 4$
 $-4 < 2x-3$ & $2x-3 < 4$
 $-1 < 2x$ & $2x < 7$
 $-\frac{1}{2} < x$ & $x < \frac{7}{2}$
 $x > -\frac{1}{2}$

④ $0 \leq x+3 < 5$
 $0 \leq x+3$ and $x+3 < 5$
 $-3 \leq x$ & $x < 2$
 $x \geq -3$

Aug 5-8:52 AM

Exceptions: (check # line)

⑤ $\frac{x}{1} > \frac{1}{x}$
 $x \neq 0$

$\sqrt{x^2} = |x|$
 $x = \pm 1$
 $(-1, 0) \cup (1, \infty)$
 $-1 < x < 0$ & $x > 1$

Aug 5-8:57 AM

⑥ Quad

$x^2 \leq 3-2x$
 $x^2 = 3-2x$
 $x^2+2x-3 = 0$
 $(x+3)(x-1) \leq 0$
 $x \leq -3, 1$

$-3 \leq x \leq 1$
or
 $[-3, 1]$

Aug 5-9:04 AM

⑦

$14-2 \leq 0$
 $x^4 - x \leq 0$
 $x(x^3-1) \leq 0$
 $x \neq 0$ & $\sqrt[3]{x^3} \leq \sqrt[3]{1}$

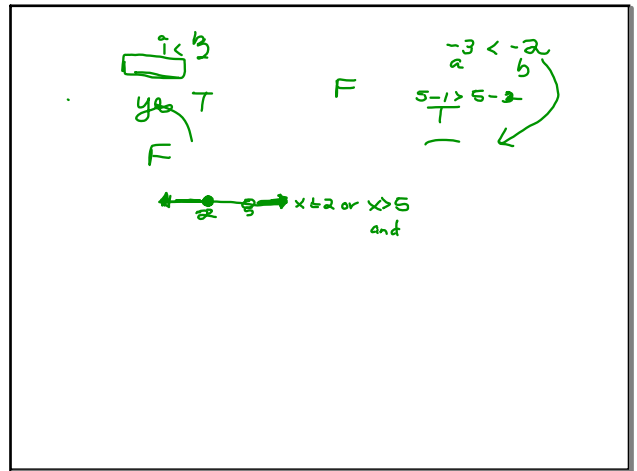
$0 \leq x \leq 1$
or
 $[0, 1]$

Aug 5-9:09 AM

⑧ $x^2 + x - 1 \leq 5$

⑨ $2x^2 + 1 < 9x - 3$

Aug 5-9:13 AM



Aug 5-9:28 AM