

11.17.15

Simplify. State any restrictions on the variable.

$$\frac{3y^2 - 3}{y^2 - 1}$$

① GCF $\frac{3(y^2 - 1)}{(y^2 - 1)}$

② Factor
a-c

~~$\begin{array}{c} -1 \\ -1 \end{array}$~~ $\begin{array}{c} y \\ 1 \end{array}$ $\begin{array}{c} y^2 \\ 1y \\ 1y \\ -1 \end{array}$

~~$\frac{3(y+1)(y-1)}{(y+1)(y-1)}$~~

③ Discontinuities
Denominator

$y+1=0$ $y-1=0$
 $y=-1$ $y=1$

④ Simplify:

$3; y \neq 1, y \neq -1$