Correction to example

Find the domain of $f(x,y) = x\sqrt{1-\frac{1}{y}}$

- Not defined unless
  - $y \neq 0$
  - $1 - \frac{1}{y} \geq 0$

i.e. $1 \geq \frac{1}{y}$ - two cases depending on the sign of y.

$(y>0)$ | $(y<0)$

$y \geq 1$ | $y \leq 1$.

$\{y \geq 1\}$ | $\{y < 0\}$.

So the domain is $D = \{(x,y) \mid y \geq 1$ or $y < 0\}$