gcd_of_triple[2,24]

$\forall a,\ b,\ c,\ x,\ y{:}\mathbb{Z}.$
$\mathrm{GCD}(a;b;x)$
$\Rightarrow \mathrm{GCD}(x;c;y)$
$\Rightarrow y \mid a\ \&\ y \mid b\ \&\ y \mid c\ \&\ (\forall z{:}\mathbb{Z}.\ z \mid a \Rightarrow z \mid b \Rightarrow z \mid c \Rightarrow z \mid y)$

http://www.nuprl.org/FDLcontent/p0_399846_/p83_7578_{gcd_of_triple}.html