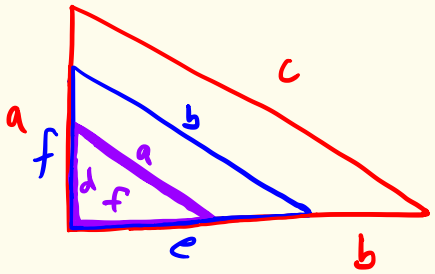

a, f, and d are comparable

b, e, and f are comparable

c, b, and a are comparable

eg: $\frac{a}{f} = \frac{c}{b} = \frac{b}{e}$

We have

$c = d + e$

$\frac{a}{d} = \frac{c}{a}$ so $a^2 = cd$ and $d = \frac{a^2}{c}$

$\frac{b}{e} = \frac{c}{b}$ so $b^2 = ce$ and $e = \frac{b^2}{c}$

Since $c = d + e$,

$c = \frac{a^2}{c} + \frac{b^2}{c}$

$c^2 = a^2 + b^2$