WolframAlpha™ computational™ knowledge engine

a/b = (a+b)/a

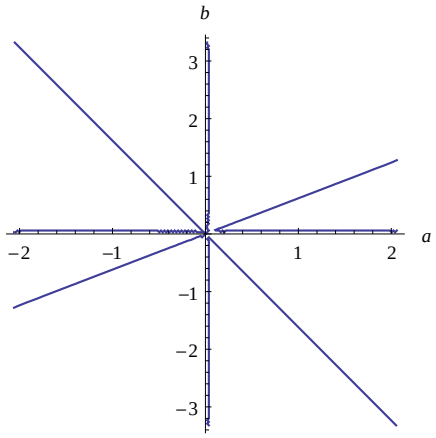
Input:

$$\frac{a}{b} = \frac{a+b}{a}$$

Geometric figure:

pair of intersecting lines

Implicit plot:



Alternate form:

$$\frac{a}{b} = \frac{b}{a} + 1$$

Alternate form assuming a and b are positive:

$$a^2 = b(a+b)$$

Solutions:

$$b = \frac{1}{2}\left(-\sqrt{5}\,a - a\right), \quad a \neq 0$$