

# iterations of the map  $f:(x,y)\rightarrow(y,(1+y)/x)$

$x[0] := 1$

$x[1] := 3$

$x[2] := 4$

$x[3] := 5/3$

$x[4] := 2/3$

$x[5] := 1$

$x[6] := 3$

$x[7] := 4$

$x[8] := 5/3$

$x[9] := 2/3$

$x[10] := 1$

$x[11] := 3$

$x[12] := 4$

$x[13] := 5/3$

$x[14] := 2/3$

$x[15] := 1$

$x[16] := 3$

# iterations of the map  $f:(x,y) \rightarrow (y, (1+1/y)/x)$

$$x[0] := 1$$

$$x[1] := 3$$

$$x[2] := 4/3$$

$$x[3] := 7/12$$

$$x[4] := \frac{57}{28}$$

$$x[5] := \frac{340}{133}$$

$$x[6] := \frac{3311}{4845}$$

$$x[7] := \frac{38741}{40205}$$

$$x[8] := \frac{2875890}{984447}$$

$$x[9] := \frac{95804179}{68987526}$$

$$x[10] := \frac{3948264547}{6838629582}$$

$$x[11] := \frac{771593606682}{391385519879}$$

# iterations of the map  $f: (x,y) \rightarrow (y, (y^{-1}+y^{-2})/x)$

$$x[4] := 8/8$$

$$x[5] := \frac{51}{64}$$

$$x[6] := \frac{820}{288}$$

$$x[7] := \frac{6851}{13225}$$

$$x[8] := \frac{577185}{324818}$$

$$x[9] := \frac{42765554}{25180361}$$

$$x[10] := \frac{2865832488}{5630514862}$$

$$x[11] := \frac{1131785533333}{348187628241}$$

$$x[12] := \frac{348732437067332}{455006740206768}$$

$$x[13] := \frac{323120857308030883}{348277838268078864}$$

$$x[14] := \frac{670523480113736460164}{228462728233485863121}$$

$$x[15] := \frac{638120886083823087474645}{1280828352858584881567088}$$

# iterations of the map  $f:(x,y) \rightarrow (y, (y+1/y)/x)$

$$x[0] := 3/2$$

$$x[1] := 2$$

$$x[2] := 5/3$$

$$x[3] := \frac{17}{15}$$

$$x[4] := \frac{514}{425}$$

$$x[5] := \frac{1334463}{742730}$$

$$x[6] := \frac{11662196756345}{5993516374716}$$

$$x[7] := \frac{2922794219200775284571274577}{2134944317941386387432254154}$$

$$x[8] := \frac{1346753326058178412149717673398857735820805173612013461506}{1248178147793266713716046429351327582174534144068636425383}$$













