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> #kyou-shouten-rankeisenn:
> restart:
> with(plots):
> c:=10:a=c:
> b:=10:

> el:=sqrt(x/(x+a+b)): er:=sqrt((x+a)/(x+a+b)):r1in:=c*(er-(el^2)*cos
(s)-el*((el^2)*(cos(s)^2)
-2*er*cos(s)+1+er^2-el^2)^(1/2))/(er^2-
el^2):r1out:=c*(er-(el^2)*cos(s)+el*((el^2)*(cos(s)^2)
-2*er*cos(s)
+1+er^2-el^2)^(1/2))/(er^2-el^2):Xin:=r1in*cos(s):Yin:=r1in*sin(s)
:Xout:=r1out*cos(s):Yout:=r1out*sin(s):TX0:=c*el/(er+el):TY0:=
0:TX1:=c/2:TY1:=sqrt((c/(er+el))^2-(c/2)^2):TSX0:=a+b:TSY0:=0:TSX1:=
(c/2+c*el/(er+el))/2:TSY1:=(1/2)*sqrt((c/(er+el))^2-(c/2)^2):CX0:=c*
(-el)/(er-el):CY0:=0:CY1:=sqrt((c/(er-el))^2-(c/2)^2)
:CSX0:=a+b:CSY0:=0:CSX1:=(c/2+c*(-el)/(er-el))/2:CSY1:=(1/2)*sqrt(
(c/(er-el))^2-(c/2)^2):

>
> F1:=point([0,0]):
> F2:=point([a,0]):
> F3:=point([a+b,0]):
> C1:=circle([0,0],sqrt(a*(a+b)),color=blue):
> macro(skyblue = COLOR(RGB, 0.1960, 0.6000, 0.8000));

```

*skyblue*

(1)

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> animate([ [0+(CX1-0)*t, 0+(CY1-0)*t, t=0..1], [a+(CX1-a)*t, 0+(CY1-0)*t,
t=0..1], [CX0+(CX1-CX0)*t, CY0+(CY1-CY0)*t, t=0..1], [CSX0+(CSX1-CSX0)*
t, CSY0+(CSY1-CSY0)*t, t=0..1], [0+(TX1-0)*t, 0+(TY1-0)*t, t=0..1, color=
green], [a+(TX1-a)*t, 0+(TY1-0)*t, t=0..1], [TX0+(TX1-TX0)*t, TY0+(TY1-
TY0)*t, t=0..1], [TSX0+(TSX1-TSX0)*t, TSY0+(TSY1-TSY0)*t, t=0..1], [Xin,
Yin, s=0..2*Pi], [Xout, Yout, s=0..2*Pi]], x=0..10, color=red, scaling=
CONSTRAINED, axes=none);

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