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Subject: Drawing ellipse with Painter with 2 foci  
Posted by [mirek](#) on Tue, 03 Sep 2019 07:00:09 GMT  
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I had a situation where I needed this, having 2 foci Points (a1, a2) and "radius at focus" (r) (minimum distance focus - ellipse).

So if need this and are too lazy to solve very simple math, here is the code:

```
double d = Distance(a1, a2);  
iw.Begin();  
iw.Translate(0.5 * (a1 + a2));  
iw.Rotate(Bearing(a2 - a1));  
iw.Ellipse(0, 0, 0.5 * d + r, sqrt((d + r) * r)).Stroke(1, Black());  
iw.End();
```