Pressure on a cable reel

The pressure on the side flange is proportional to radius $r$

$$P = P_{1} - pr = P_{1} - p \sqrt{x^2 + y^2}$$

The JScript function to give in the insert surface load dialogue will be on the form:

```javascript
return 5.0 - 1.0 * Math.sqrt(Math.pow(x.toDouble(), 2) + Math.pow(y.toDouble(), 2));
```