$$22(x^2+y^2)-354x-28y+338=0$$

Bestimmung von Mittelpunkt und Radius mittels quadratischer

$$x^{2} + y^{2} - \frac{354}{22}x - \frac{28}{22}y + \frac{338}{22} = 0$$

$$2x = -\frac{354}{22} \Rightarrow x = -\frac{354}{44} = -\frac{177}{22} \qquad 2y = -\frac{28}{22} \Rightarrow y = -\frac{28}{44} = -\frac{7}{11}$$

$$\left(x - \frac{177}{22}\right)^{2} + \left(y - \frac{7}{11}\right)^{2} = -\frac{338}{22} + \left(\frac{177}{22}\right)^{2} + \left(\frac{7}{11}\right)^{2}$$

Mittelpunkt
$$\left(\frac{177}{22}, \frac{7}{11}\right)$$

Radius
$$\sqrt{-\frac{338}{22} + \left(\frac{177}{22}\right)^2 + \left(\frac{7}{11}\right)^2} = \sqrt{\frac{24089}{484}} = \frac{1}{22}\sqrt{24089} = 7.0548.$$

