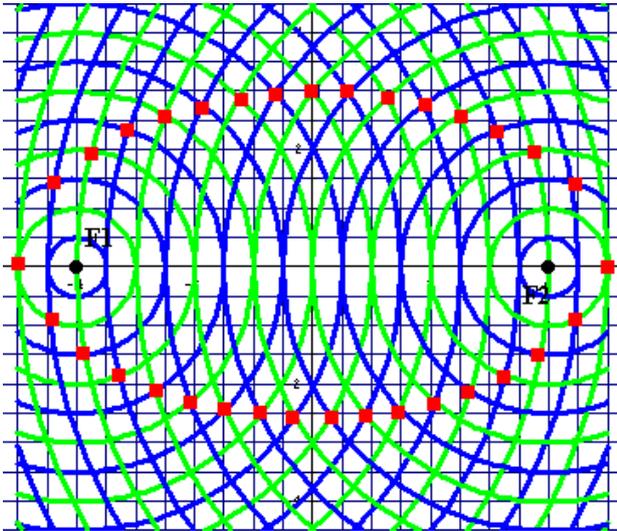
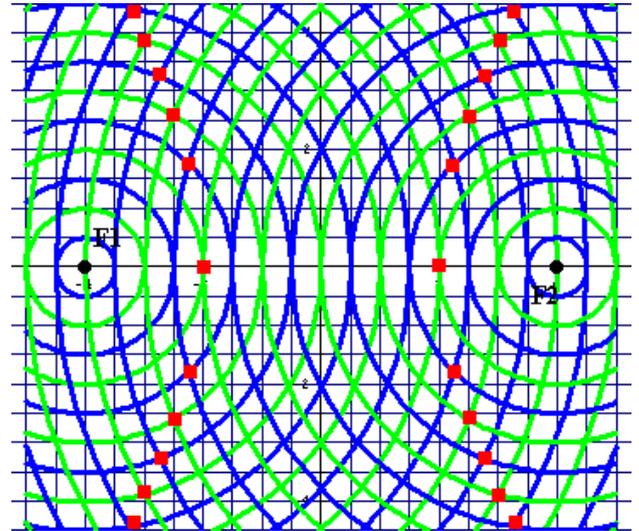


Konstruktionen 6 und 7 vom Arbeitsblatt Kurven Kl.8

Ellipse



Hyperbel



$$2a = 20$$

$$a = 10$$

$$e = 8$$



$$b^2 = a^2 - e^2$$

$$b^2 = 100 - 64 = 36$$

$$b = 6$$

$$\frac{x^2}{100} + \frac{y^2}{36} = 1$$

Ellipse

$$d = e + a - (e - a)$$

$$d = 2a$$

$$d = 8 \Rightarrow a = 4$$

$$b^2 = e^2 - a^2$$

$$b^2 = 64 - 16 = 48$$

$$b = \sqrt{48} \approx 7$$

$$\frac{x^2}{16} - \frac{y^2}{48} = 1$$

Hyperbel

