

### G30MIRCV

### Concave mirror.

Radius of curvature is neg., xo is on left, is negative.

To get around the singularity at  $-x_o = f$  one chooses the increments such that the value for the singularity does not appear.

$$r := -50$$

$$x_o := -60$$

$$x_i := \frac{1}{\left(\frac{1}{\frac{r}{2}}\right) - \frac{1}{x_o}} \quad x_i = -42.857 \quad m := \frac{-x_i}{x_o}$$

$$m = -0.714$$

### Graph

$$xxo := -100, -99.1 \dots -1$$

$$xxi(xx_o) := \frac{1}{\left(\frac{1}{\frac{r}{2}}\right) - \frac{1}{xx_o}}$$

