## Calculation

An arrow is located in front of a convex spherical mirror of radius R = 50 cm. The tip of the arrow is located at (-20 cm, -15 cm).

What is the focal length of the mirror?

A) f = 50 cm B) f = 25 cm C) f = -50 cm

For a spherical mirror |f| = R/2 = 25cm.

Rule for sign: Positive on side of mirror where light goes after hitting mirror



