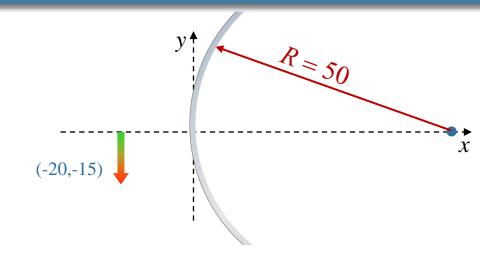
Calculation

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



Where is the tip of the arrow's image?

Conceptual Analysis

Mirror Equation: 1/s + 1/s' = 1/f

Magnification: $M = -s^2/s$

Strategic Analysis

Use mirror equation to figure out the \boldsymbol{x} coordinate of the image Use the magnification equation to figure out the \boldsymbol{y} coordinate of the tip of the image