

Parabolic Dish

Parabola Dish focusing beams to the focal center.

A parabola is a curve where any point is at an equal distance from: a fixed point (the focus), and a fixed straight line (the directrix)

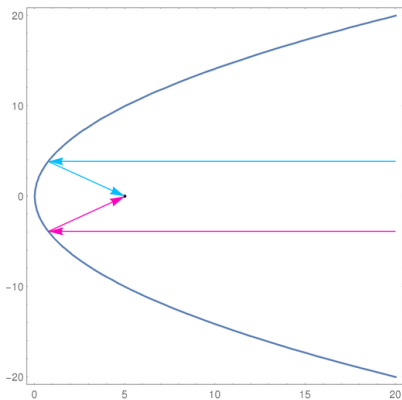
and the curve is defined by: $y^2 = 4ax$

And a parabola has this amazing property: Any ray parallel to the axis of symmetry gets reflected off the surface straight to the focus.

So the parabola can be used for:

- (1) satellite dishes
 - (2) radar dishes
 - (3) concentrating the sun's rays to make a hot spot
 - (4) the reflector on spotlights and torches
- And many other applications.

$$y^2 = 20x$$



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