Q2. A nearsighted person cannot clearly see beyond 200cm.

Find the power of the lens needed to see objects at large distance?

Solution:

For near sighted person, formula is

$$\Rightarrow \frac{1}{v} - \frac{1}{u} = \frac{1}{f}$$

$$\Rightarrow \frac{1}{-2} - \frac{1}{\inf initv}$$

Power P =
$$1/f = -0.5D$$