

**Answer on Question #47004-Physics-Optics**

How many diopters are there for a converging lens with a focal length of 0.4m?

-2.5

-04

+0.4

+2.5

**Solution**

A lens with a focal length of  $f = +0.4 \text{ m}$  (converging lens) has a power

$$P = \frac{1}{f} = \frac{1}{+0.4 \text{ m}} = +2.5 \text{ diopters.}$$

**Answer: +2.5 diopters.**