

**Answer on Question #43371- Physics-Optics**

Find the effective power of the combination of two lenses in contact having powers (1) +5D and +3D (2) +5D and -3D

**Solution**

The effective power of the combination of two lenses in contact having powers  $D_1$  and  $D_2$  is

$$D_{eff} = D_1 + D_2.$$

$$(1) D_{eff} = +5D + (+3D) = +8D.$$

$$(2) D_{eff} = +5D + (-3D) = +2D.$$

**Answer: (1) +8D; (2) +2D.**

