

3.25 Regular Tetrahedron

Triangle side length: a

Height: h

Area of base: S_B

Surface area: S

Volume: V

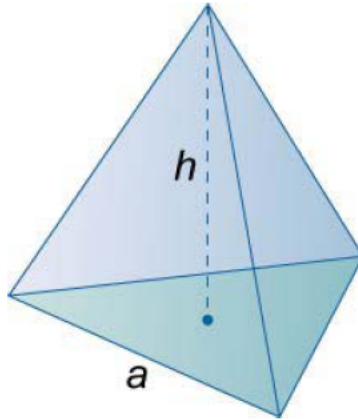


Figure 40.

$$288. \quad h = \sqrt{\frac{2}{3}} a$$

$$289. \quad S_B = \frac{\sqrt{3}a^2}{4}$$

$$290. \quad S = \sqrt{3}a^2$$

$$291. \quad V = \frac{1}{3} S_B h = \frac{a^3}{6\sqrt{2}}.$$