

3.25 Regular Tetrahedron

Triangle side length: a

Height: h

Area of base: S_B

Surface area: S

Volume: V

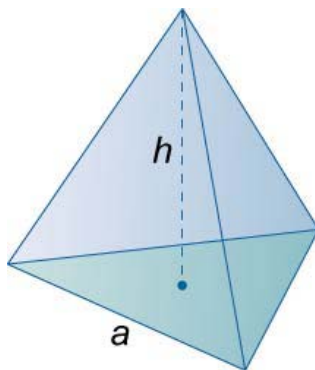


Figure 40.

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

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

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

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