

Pensieve header: Drawing prisms for the prism construction.

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 $\theta = 2\pi/3;$ 
f0 = {1,  $\theta$ , 0}; f1 = {Cos[ $\theta$ ], Sin[ $\theta$ ], 0}; f2 = {Cos[2  $\theta$ ], Sin[2  $\theta$ ], 0};
g0 = {1,  $\theta$ , 3}; g1 = {Cos[ $\theta$ ], Sin[ $\theta$ ], 3}; g2 = {Cos[2  $\theta$ ], Sin[2  $\theta$ ], 3};
 $\sigma_0$  = Simplex[{f0, g0, g1, g2}];
 $\sigma_1$  = Simplex[{f0, f1, g1, g2}];  $\sigma_2$  = Simplex[{f0, f1, f2, g2}];
Shrink[r_][Simplex[{v0_, v1_, v2_, v3_}]] := Module[
  {c = (v0 + v1 + v2 + v3)/4},
  Simplex[{c + r (v0 - c), c + r (v1 - c), c + r (v2 - c), c + r (v3 - c)}]
];
specs = {ImageSize -> {279.995, 458.154}, ImageSizeRaw -> Automatic, ViewPoint ->
  {-1.99788, -2.3842, 1.33194}, ViewVertical -> {-0.369604, -0.292044, 0.97364}};
GraphicsRow[{
  Graphics3D[{ $\sigma_0$ ,  $\sigma_1$ ,  $\sigma_2$ }, specs],
  Graphics3D[{Opacity[0.7], Shrink[0.7] /@ { $\sigma_0$ ,  $\sigma_1$ ,  $\sigma_2$ }}, specs]
}]

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