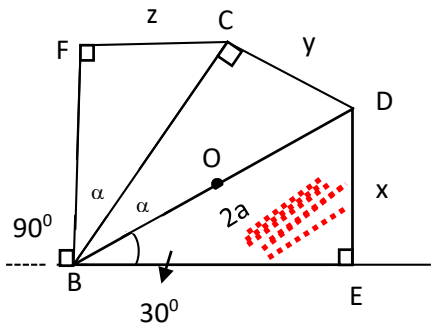
Geometry 2-1



Calculate:

x =?

y =?

z =?

$x = 2a.\frac{1}{2} = a$

$2\alpha = 90^0 - 30^0 = 60^0$

$\alpha = \frac{60}{2} = 30^0$

y = x = a

$(BC)^2 = 4a^2 - a^2 = 3a^2$ $BC = \sqrt{3}a$

$z = \frac{BC}{2} = \frac{\sqrt{3}}{2}a$

BO = OD

" O " is the center of circle of BCDE

BO = OD = OC = DE = a