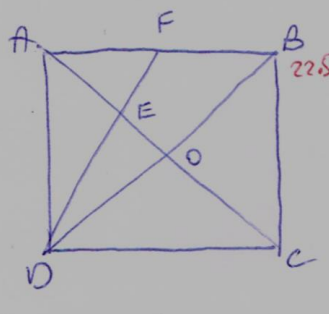
1.84
S



$22.5 = \sphericalangle ADF \leftarrow \sphericalangle ADB = 45^\circ$ $\therefore \triangle ADF$ ①

$\sphericalangle DFA = 67.5$

$\sphericalangle FAE = 45^\circ$

$\sphericalangle AEF = 67.5$ ←

$\triangle AEF$ ←

②

$$\frac{AD}{DO} = \frac{AE}{EO}$$

$$\frac{\sqrt{2}x}{x} = \frac{AE}{EO}$$

$AD = \sqrt{2}x \leftarrow AO = DO = x$

$\sqrt{2}EO = AE$

$AF = AE\sqrt{2}EO$

$AB = AD = \sqrt{2}x = \sqrt{2}(AE + EO)$

$= \sqrt{2}(\sqrt{2}EO + EO)$

$= EO(2+\sqrt{2})$

$$FB = AB - AF = EO(2+\sqrt{2}) - \sqrt{2}EO = 2EO$$