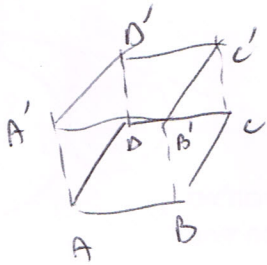


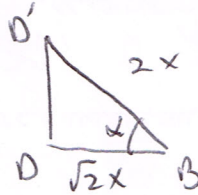
3
(240)

(10)



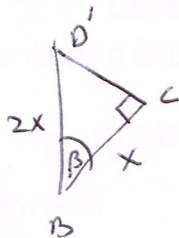
X - a התיכון של ABC

$DB = \sqrt{2}x$ התיכון של ABC



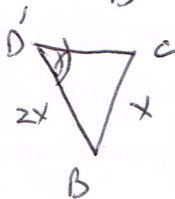
$$\cos \alpha = \frac{\sqrt{2}x}{2x} = \frac{\sqrt{2}}{2} \Rightarrow \boxed{\alpha = 45}$$

(11)



$$\cos \beta = \frac{x}{2x} = \frac{1}{2} \Rightarrow \boxed{\beta = 60}$$

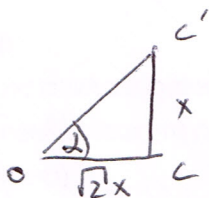
(12)



$$\sin \gamma = \frac{x}{2x} = \frac{1}{2} \Rightarrow \boxed{\gamma = 30}$$

4
(240)

(11)



O - a DB של ABC

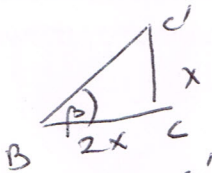
2x - a התיכון של ABC

x התיכון של ABC

$OC = \frac{1}{2} AC = \sqrt{2}x$ וכן $AC = DB = \sqrt{2}x$ וכן

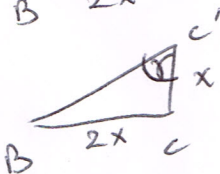
$$\tan \alpha = \frac{x}{\sqrt{2}x} = \frac{1}{\sqrt{2}} \Rightarrow \boxed{\alpha = 35.264}$$

(12)



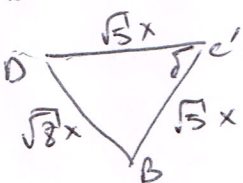
$$\tan \beta = \frac{x}{2x} = \frac{1}{2} \Rightarrow \boxed{\beta = 26.565}$$

(13)



$$\tan \gamma = \frac{2x}{x} = 2 \Rightarrow \boxed{\gamma = 63.43}$$

(14)



התיכון של ABC

$$(\sqrt{2}x)^2 = (\sqrt{2}x)^2 + (\sqrt{2}x)^2 - 2(\sqrt{2}x)(\sqrt{2}x) \cos \delta$$

$$\cos \delta = \frac{-2x^2}{-2 \cdot 2x^2} = \frac{1}{5} \Rightarrow \boxed{\delta = 78.463}$$