Chapter 3 Homework 3

	chapter3 Homework-3[8,10,17,31,46,53]
	Jay Patel classical Physics-1 (20) Online OLO1 (profesor Van, Huett)
	$\vec{Q} \vec{V}_1 = -6.0i + 8.0j V_1 = \sqrt{6.0^2 + 8.0^2} = [10.0]$ $\vec{Q} = +40.1 8.0 = [127^\circ]$
	$\vec{0} = 4.6 \cdot -5.0 \cdot \sqrt{12} = 4.6 \cdot -5.0 \cdot \sqrt{12} = 312^{\circ}$
	$ \begin{array}{ll} \vec{3} \cdot \vec{1} + \vec{3} = (-6.0^{\circ} + 8.0^{\circ}) + (4.5^{\circ} - 5.0^{\circ}) = -1.5^{\circ} + 3.0^{\circ} \end{array} $ $ \begin{array}{ll} \vec{1} \cdot \vec{1} + \vec{3} \cdot \vec{1} = \sqrt{1.5^{2} + 3.0^{2}} = 3.4 \end{array} $ $ 0 = \tan^{-1} 3.0 = [117^{\circ}] $
d	$ \vec{v}_2 - \vec{v} = (4.5i^2 - 5.0i^2) - (-6.0i^2 + 8.0i^2) = 10.5i^2 - 13.0i^2$ $ \vec{v}_2 - \vec{v} = \sqrt{10.5^2 + 13.0^2} - (6.7) = 40.0i^2 - 13.0 = 13.0i$ $ \vec{v}_2 - \vec{v} = \sqrt{10.5^2 + 13.0^2} - (6.7) = 40.0i^2 - 13.0 = 13.0i$
	$Ax = 44.0 \cos 28.0^{\circ} = 38.85$ $Ay = 44.0 \sin 28.0^{\circ} = 20.66$
	$x = -26.5 \cos 56.0^{\circ} = -14.82$ $y = -26.5 \sin 56.0^{\circ} = +21.97$
	x = 31.0 cos270° -0.0
C	= 31.0 sin 270°=-31.0.





