$$(2)$$
  $(2)$   $(3)$   $(2)$   $(3)$   $(2)$   $(3)$   $(3)$   $(3)$   $(4)$   $(4)$   $(5)$   $(5)$   $(5)$   $(7)$ 

$$\frac{8-11i}{5}$$

$$\frac{8-11i}{5}$$

$$\frac{7-i3}{5} = \frac{10-7:+21i+8:}{5}$$

$$= -3i+21i-2i+14$$

$$-\frac{11}{50}+\frac{25}{50}$$

2) a) 
$$e^{i\theta} = Cos(6) + isso(6)$$
 $a = 3e^{\frac{\pi}{4}}$ 
 $= 3(cos(\frac{\pi}{4}) + isso(\frac{\pi}{4})) = 3(c^{\frac{\pi}{4}} + isso(\frac{\pi}{4}))$ 
 $= \frac{3}{2} + \frac{3\sqrt{3}}{2}$ 
 $= \frac{3}{2} + \frac{3\sqrt{3}}{2}$ 

3) a) 
$$\cos Ca = \frac{ei}{2} + \frac{ei}{2}$$
  
 $ei$   $\frac{1}{2}$   
 $\cos Ca$   $= \frac{ei}{2} + \frac{1}{2}$ 

b) 
$$sin(t) = \frac{e^{it} - e^{it}}{2i}$$

$$(-\sqrt{2},\sqrt{2})$$

$$()$$
  $(-1)$   $(\frac{5}{2})$   $(\frac{5}{2})$   $(\frac{5}{2})$ 

$$(\frac{253}{2}, -\frac{3}{2})$$

(a) 
$$3i$$
 $r=3i=\sqrt{0^2+2^2}=3$ 
 $3i$ 
 $3i$ 
 $3i$ 
 $3i$ 
 $3i$ 
 $3i$ 

d) 
$$4-2\sqrt{5}$$
:
$$v = (4^{2} + (2\sqrt{2})^{2} = \sqrt{16+400} = \sqrt{16+12} = \sqrt{28}$$

$$0 = t^{-1} = \sqrt{2}$$

$$= 2\sqrt{7} = (5)^{2}$$

7) 0) (2 = 4)  $0 \le (5.2)$   $0 \le -5.2$ (5.2)  $0 \le (5.2)$  (5.2)