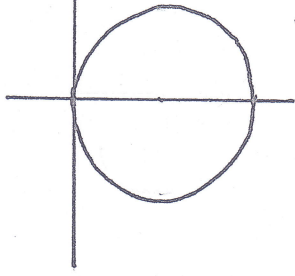
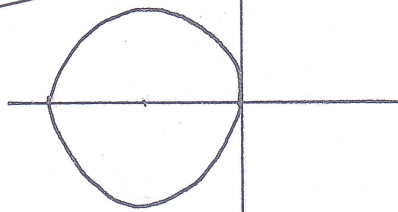


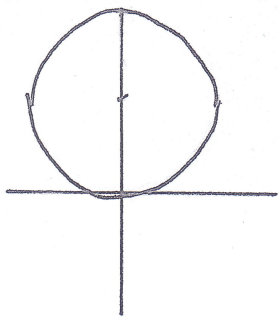
pp19/1



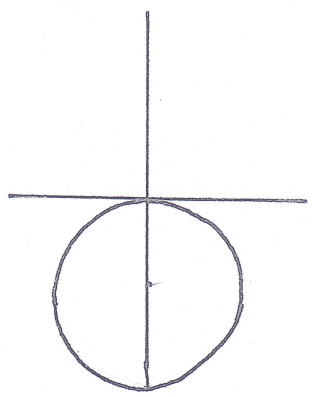
(a): $r = \cos \theta$



(b) $r = -\cos \theta$

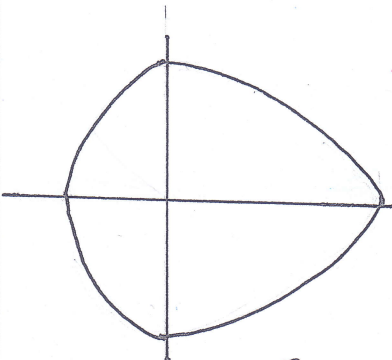


(c): $r = \sin \theta$

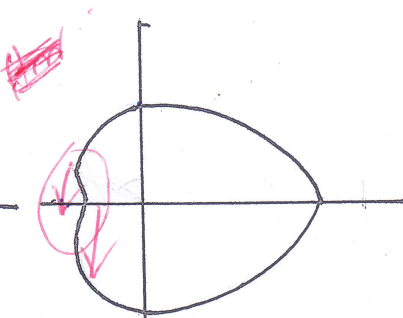


(d): $r = -\sin \theta$

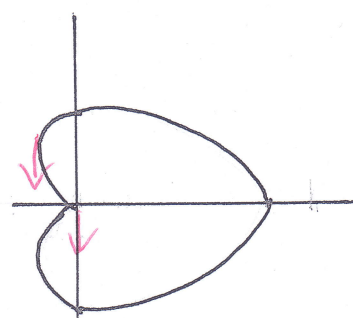
Figure 3



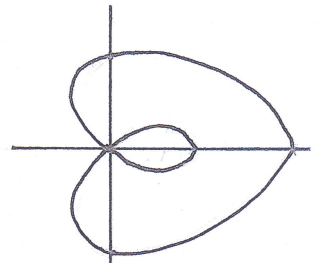
(a): $r = 3 + \cos \theta$



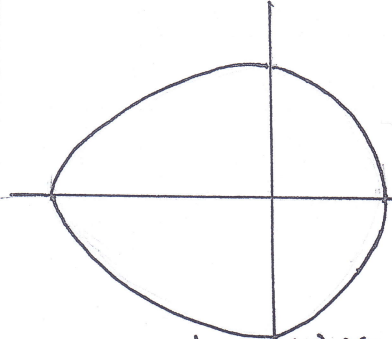
(b) $r = \frac{3}{2} + \cos \theta$



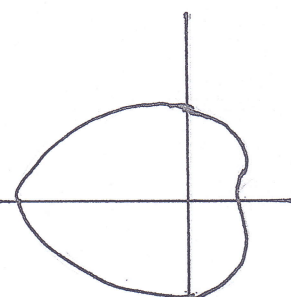
(c): $r = 1 + \cos \theta$



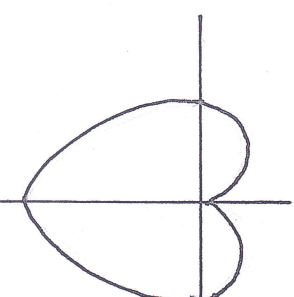
(d): $r = \frac{1}{2} + \cos \theta$



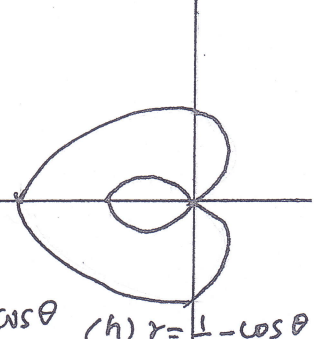
(e): $r = 3 - \cos \theta$



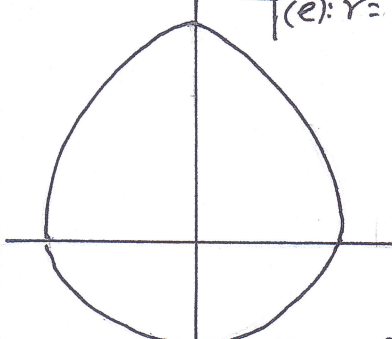
(f): $r = \frac{3}{2} - \cos \theta$



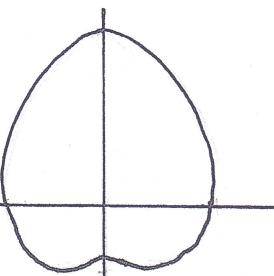
(g): $r = 1 - \cos \theta$



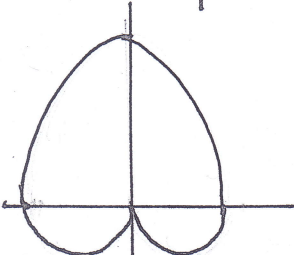
(h) $r = \frac{1}{2} - \cos \theta$



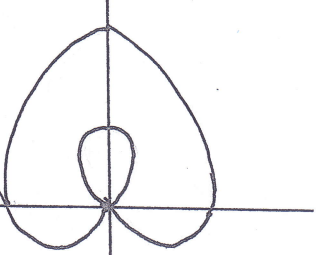
(i): $r = 3 + \sin \theta$



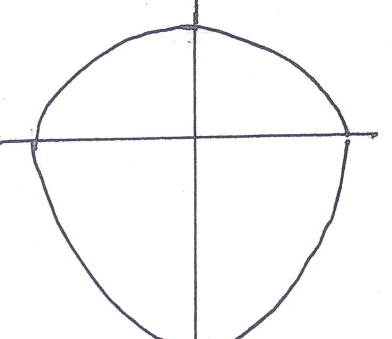
(j) $r = \frac{3}{2} + \sin \theta$



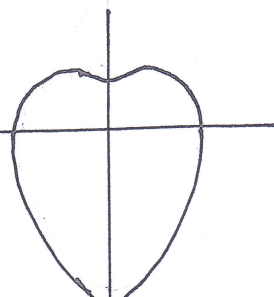
(k): $r = 1 + \sin \theta$



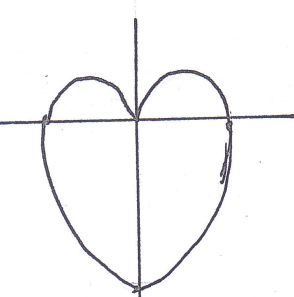
(l) $r = \frac{1}{2} + \sin \theta$



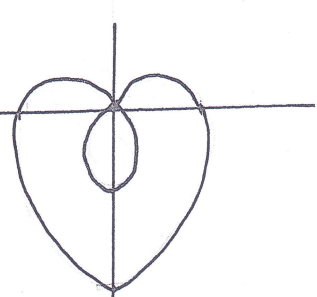
(m) $r = 3 - \sin \theta$



(n): $r = \frac{3}{2} - \sin \theta$



(o): $r = 1 - \sin \theta$



(p): $r = \frac{1}{2} - \sin \theta$

Figure 4

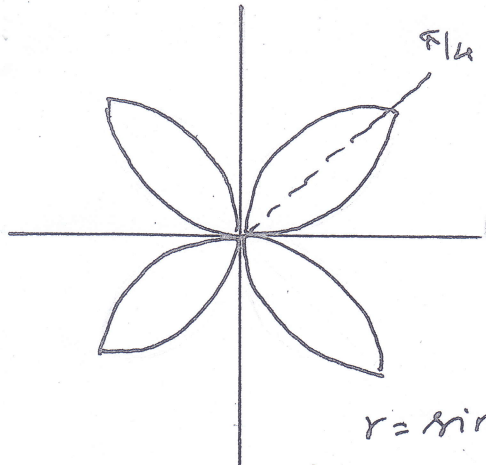


Figure 5(a)

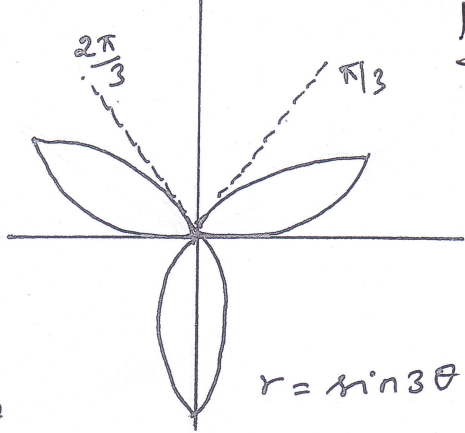


Figure 5(b)

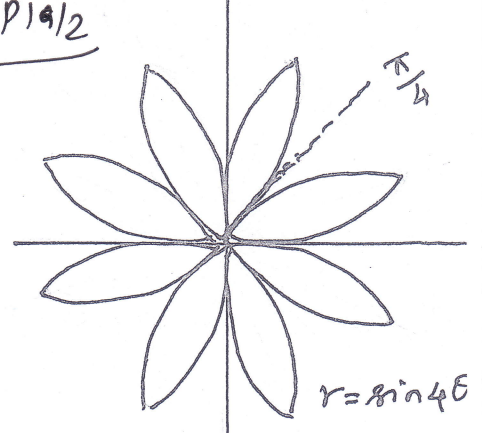


Figure 5(c)

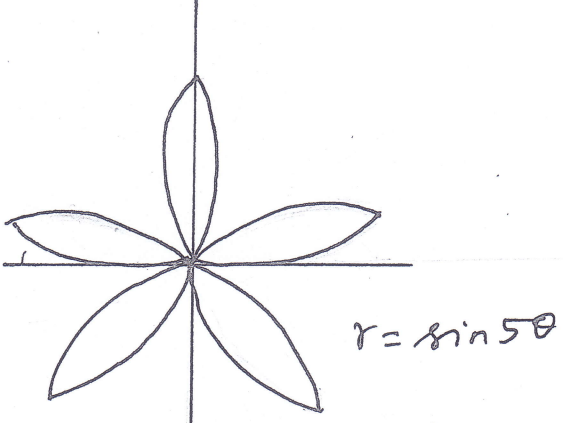


Figure 5(d)

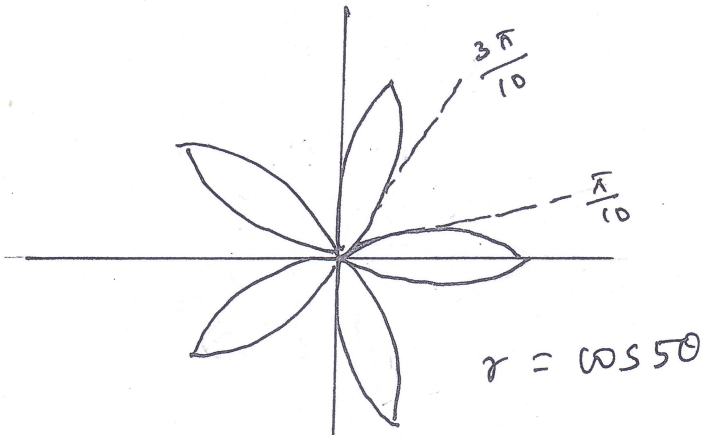
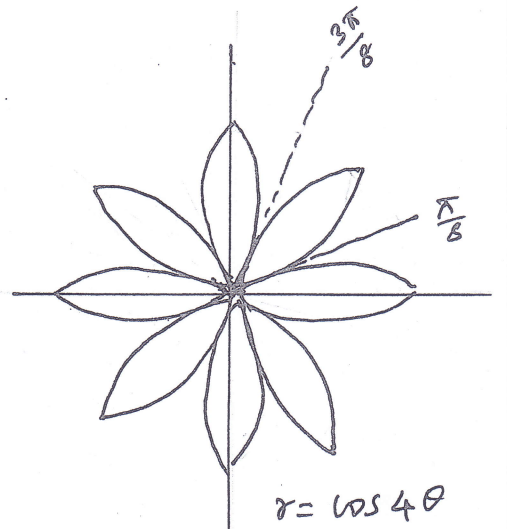
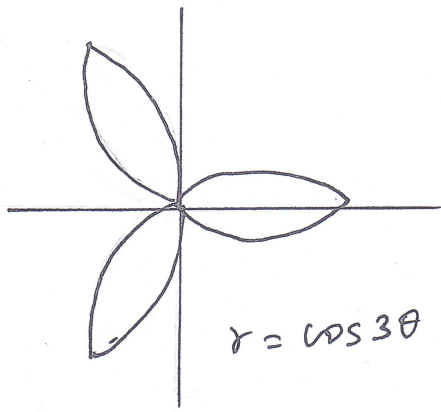
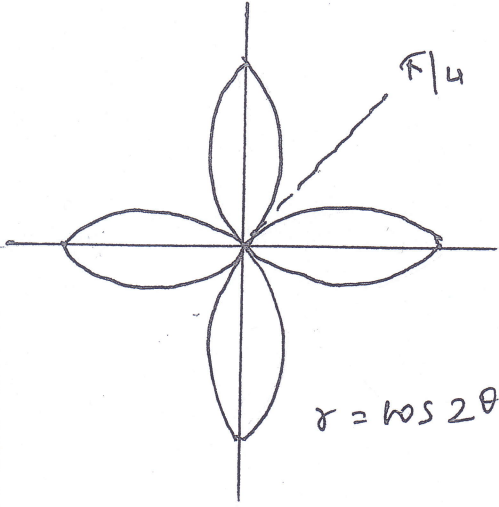
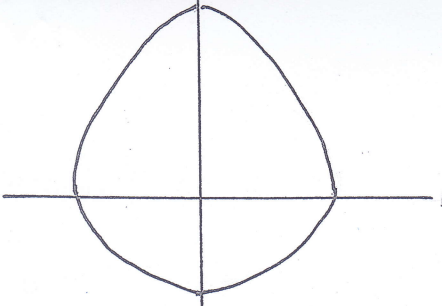
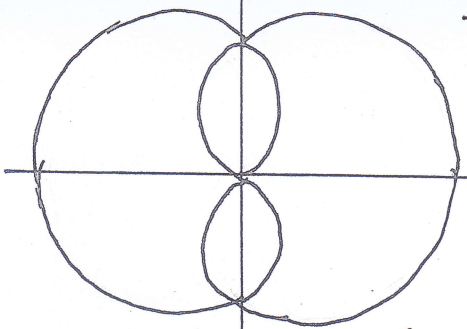


Figure 5



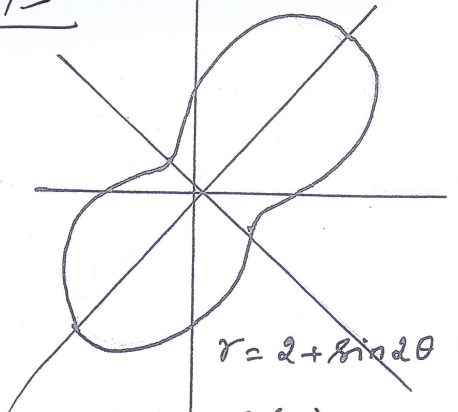
$r = 2 + \sin \theta$

Figure 6



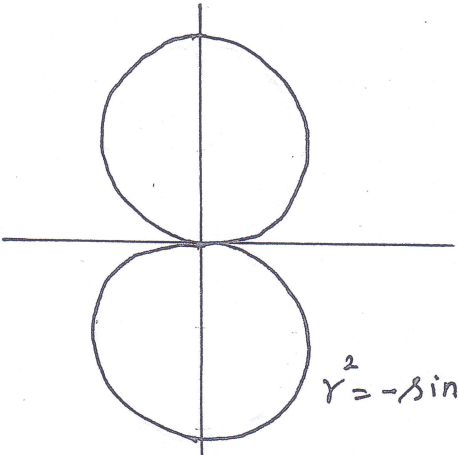
$r = \sin \theta / 2$ / $r = \cos \theta / 2$

Figure 7



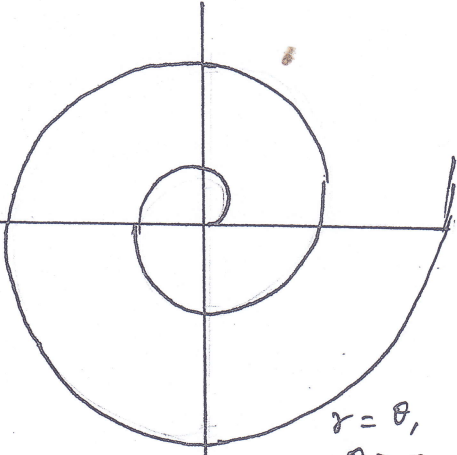
$r = 2 + \sin 2\theta$

Figure 8(a)



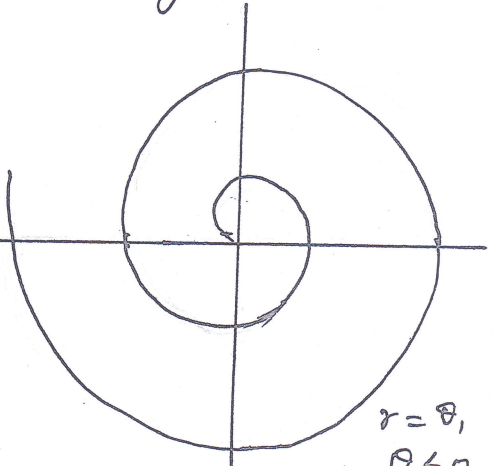
$r^2 = -\sin \theta$

Figure 8(b)



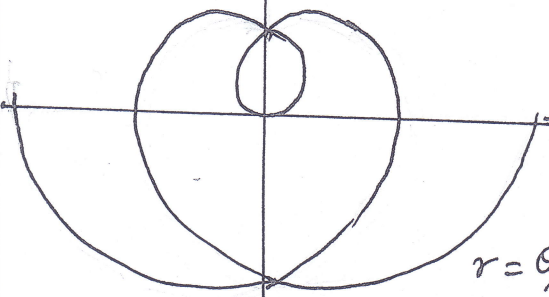
$r = \theta$, $\theta \geq 0$

Figure 8(c)



$r = \theta$, $\theta \leq 0$

Figure 8(d)



$r = \theta$ / $r = -\theta$

Figure 8(e) / ~~8(f)~~

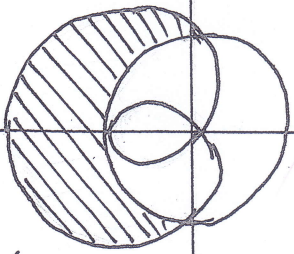
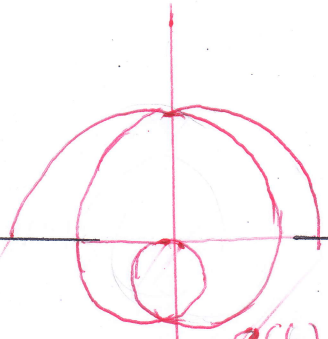


Figure 10(a)



8(f)

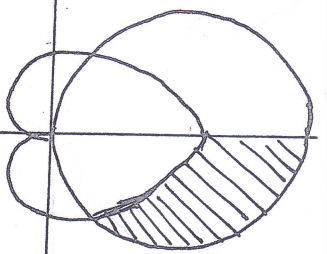


Figure 10(b)

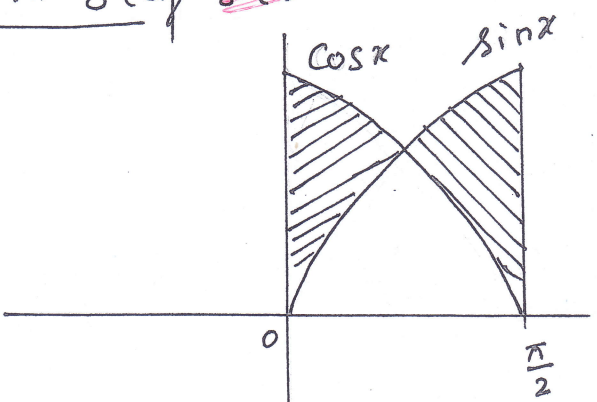


Figure 1

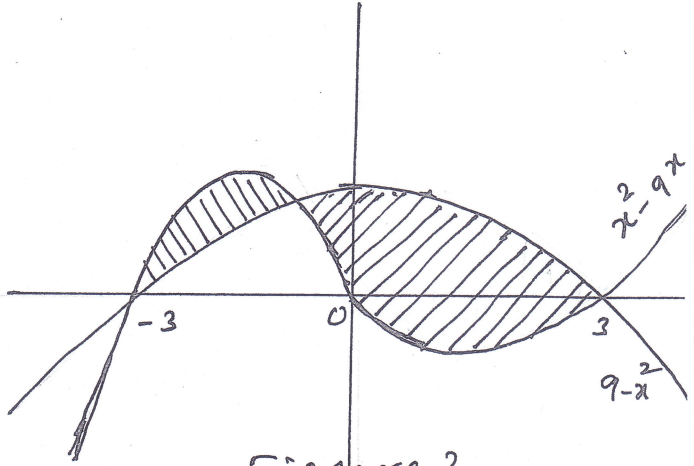


Figure 2