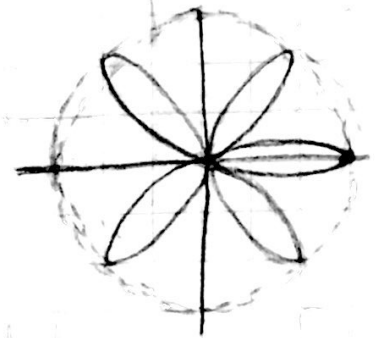


HW #63 p. 548

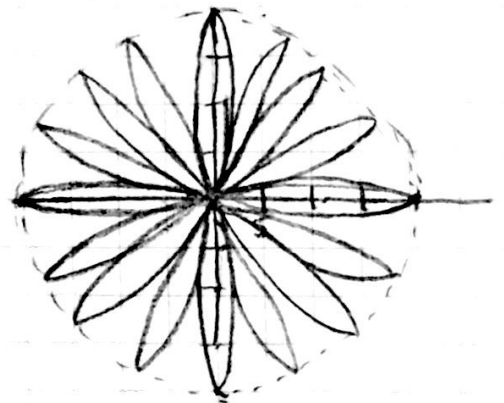
25. a. symmetry: polar axis (x-axis)

$r = 3\cos\theta$ zeros: $x = 0, 3$
maximum: $r = 3$



b. symmetry: polar axis (x-axis) & line $\theta = \frac{\pi}{2}$ (y-axis)

$r = 20\cos 8\theta$
zeros: $x =$
maximum: $r = 20$

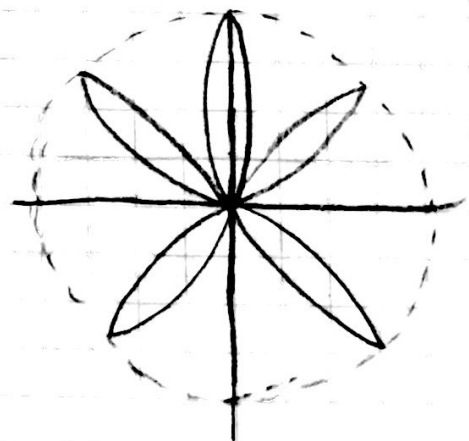
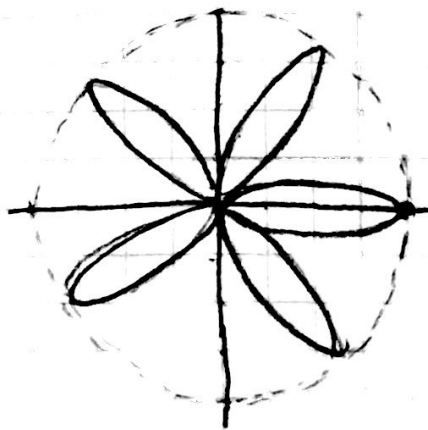


35. $r = 3\sin\theta$

37. $r = 3\cos 4\theta$

39. $r = -2\cos\theta$

41. a. $r = 4\cos 5\theta$ $r = 4\sin 5\theta$



47. a. $r = 2 \sin 5\theta$ or $r = 2 \cos 5\theta$

b. $r = 7 \sin 2\theta$ or $r = 7 \cos 2\theta$

c. $r = 6 \sin 4\theta$ or $r = 6 \cos 4\theta$

49. $r = 2 + 2 \sin \theta$