

Assignment 14

Instructions: For the following six polar functions,

- (a) graph the associated polar curve; and
- (b) find the area enclosed by the polar curve.

1. $r = -2 + 2 \sin \theta$

2. $r = 2 + 2 \sin 4\theta$

3. $r = -1 + 5 \sin 3\theta$

4. $r = -2 + \cos 5\theta$

5. $r = 1 - 3 \cos \theta$

6. $r = 2 - 5 \sin \theta$