

Identify the polar graph (*circle, cardioid, limaçon, rose*):

If a circle, give the radius/If a limaçon, name the type/If a rose, state the number of petals.

1. $r = 4 \cos \theta$

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

3. $r = -7 \sin 10\theta$

4. $r = 4 + 7 \sin \theta$

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

6. $r = 6 + 6 \cos \theta$

7. $r = 8 \cos 5\theta$

8. $r = -8$

9. $r = 8 + 6 \cos \theta$