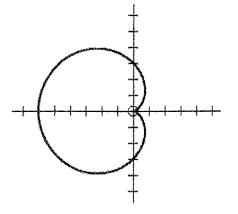
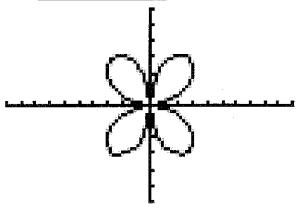


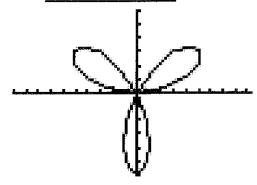


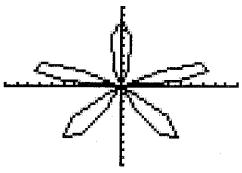
$$r = \frac{3-3\cos\theta}{A}$$
 (A) $r = \frac{3-3\cos\theta}{A}$ (J)

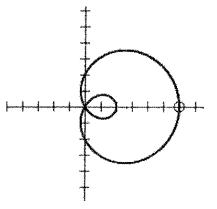




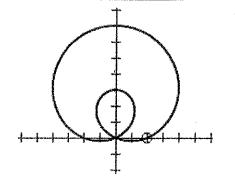
$$r = (6\sin(3\theta))(E)$$



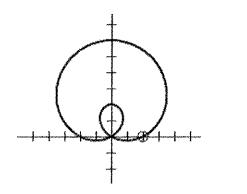


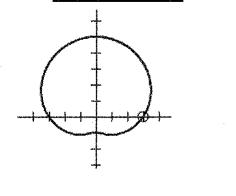


$$r = 2 + 5 \sin \theta$$
 (c)

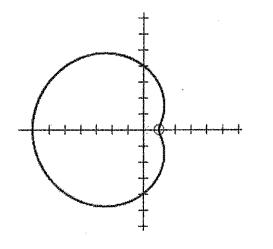


$$r = 2 + 4 \sin \theta$$
 (H)





$$r = \frac{4 - 3\cos\theta}{(I)}$$



Identify the special curve and any special properties (symmetry, distance from pole, number of leaves)

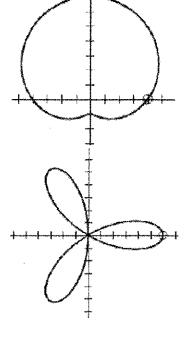
$$r = 4 + 3 \sin \theta$$

Dimpled Limacon,

symmetric w/ positive y-axis

$$r = 6\cos 3\theta$$

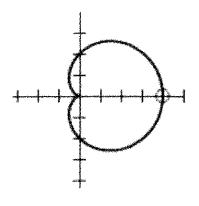
Rose curve with 3 petals that are 6 units long



$$r = 2 + 2\cos\theta$$

Cardioid that is

Symmetric w/ positive x-axis



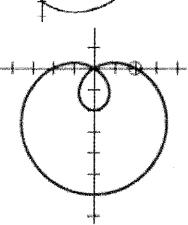
$$r = 4 + 3\cos\theta$$

Dimpled Limacon,

symmetric w/ positive x-axis

$$r = 2 - 4 \sin \theta$$

Limacon with an inner loop that is symmetric w/ negative y-axis

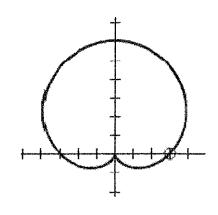


$$r = 3 + 3\sin\theta$$

Cardioid that is

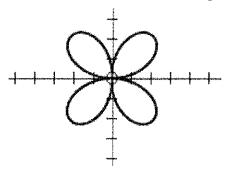
symmetric with the

positive y –axis



$$r = 3 \sin 2\theta$$

Rose curve with 4 petals that are 3 units long



$$r = 3 + 5\cos\theta$$

Limacon with an inner loop that is symmetric with the positive x-axis

