

Use symmetry, zeros, and maximum r -values to graph each function.

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

1) Complete the Table:

θ	0	$\frac{\pi}{12}$	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{5\pi}{12}$	$\frac{\pi}{2}$	$\frac{7\pi}{12}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	$\frac{5\pi}{6}$	$\frac{11\pi}{12}$	π

2) Identify the type of Symmetry:

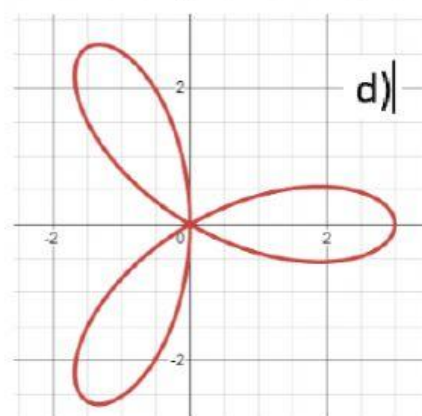
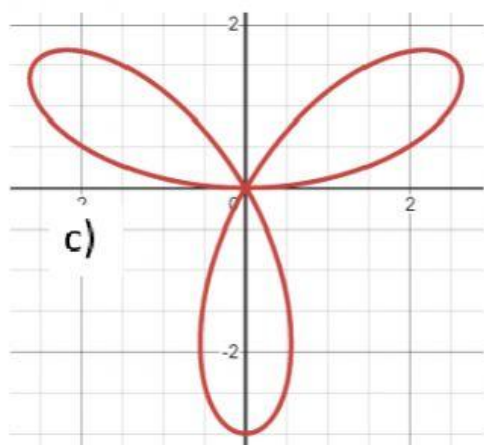
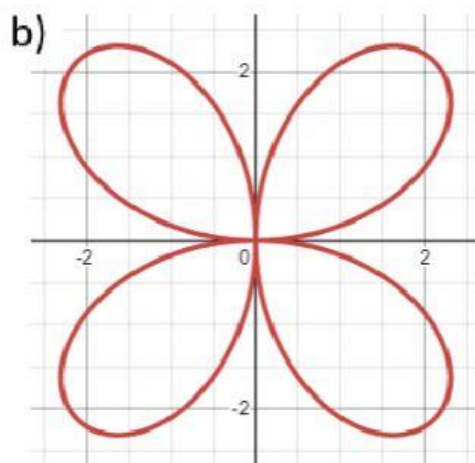
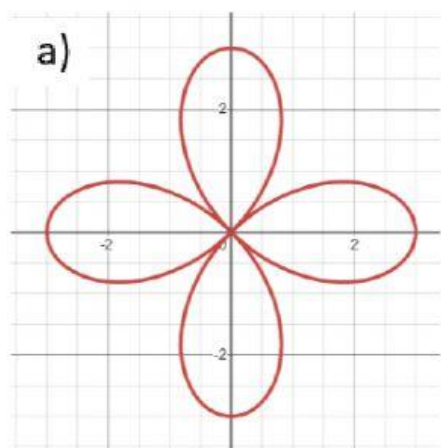
a) Polar axis

b) Line $\theta = \frac{\pi}{2}$

c) Both

3) What is the Maximum value?

4) Identify the graph:



Use symmetry, zeros, and maximum r -values to graph each function.

$$r = \cos 5\theta$$

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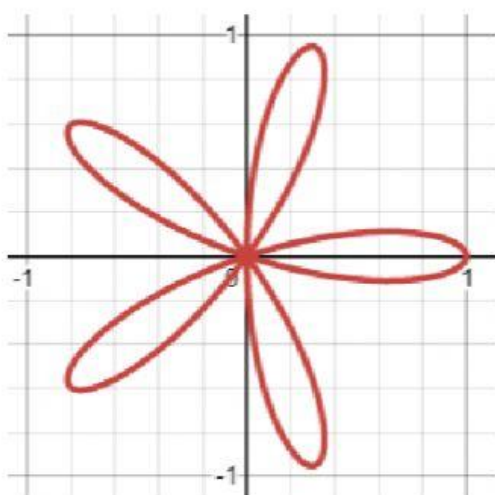
b) Line $\theta = \frac{\pi}{2}$

c) Both

3) What is the Maximum value?

4) Identify the Graph:

a)



b)

