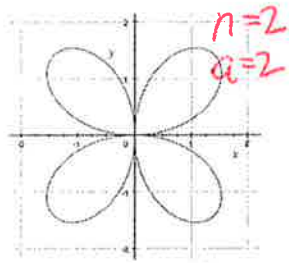


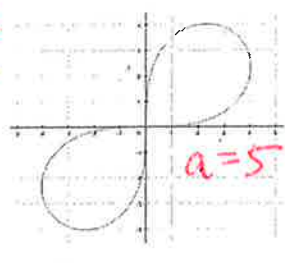
Brrrrr.... It's cold in here... It must be polar graphs in the atmosphere: key

AP Calculus BC: 13.2 Polar Graphs

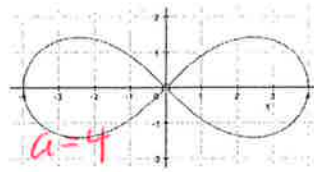
Write the formula and name each of the following polar graphs



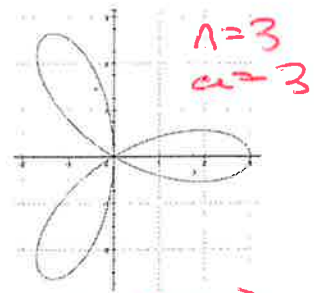
$r = 2\sin(2\theta)$
rose



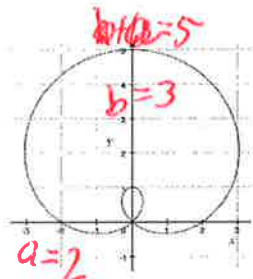
$r^2 = 25\sin(2\theta)$
Limaçon



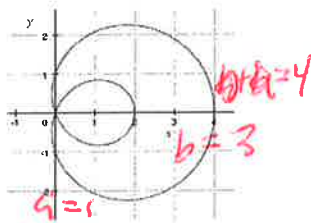
$r^2 = 16\cos(2\theta)$
Lemniscate



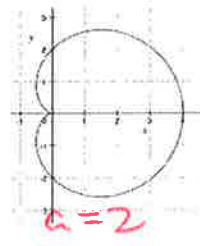
$r = 3\cos(3\theta)$
rose



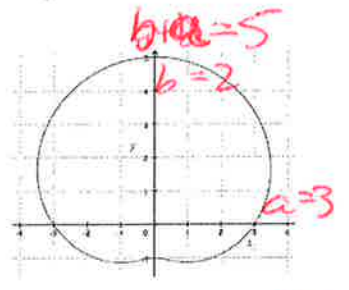
$r = 2 + 3\sin(\theta)$
Limaçon



$r = 1 + 3\cos(\theta)$
Limaçon



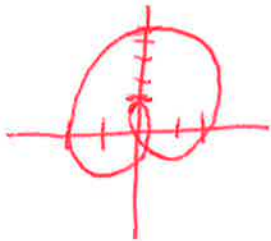
$r = 2 + 2\cos(\theta)$
cardioid



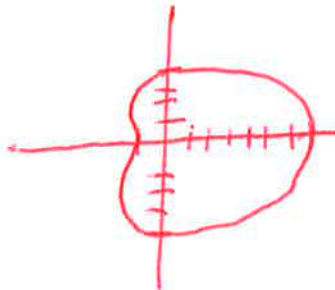
$r = 3 + 2\sin(\theta)$
limaçon

Graph and name each of the following polar graphs

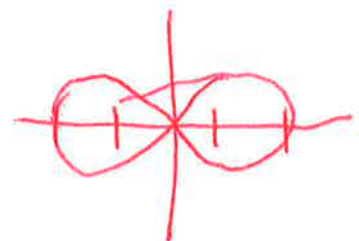
1. $r = 2 + 3\sin(\theta)$



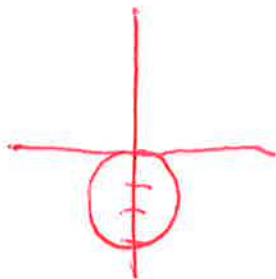
2. $r = 4 + 3\cos(\theta)$



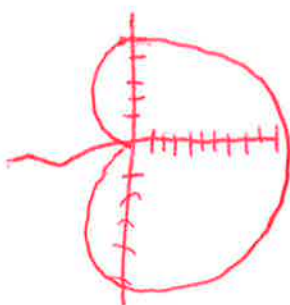
3. $r^2 = 4\cos(2\theta)$



4. $r = -3\sin(\theta)$



5. $r = 5 + 5\cos(\theta)$



6. $r^2 = 2 + 3\cos(2\theta)$

