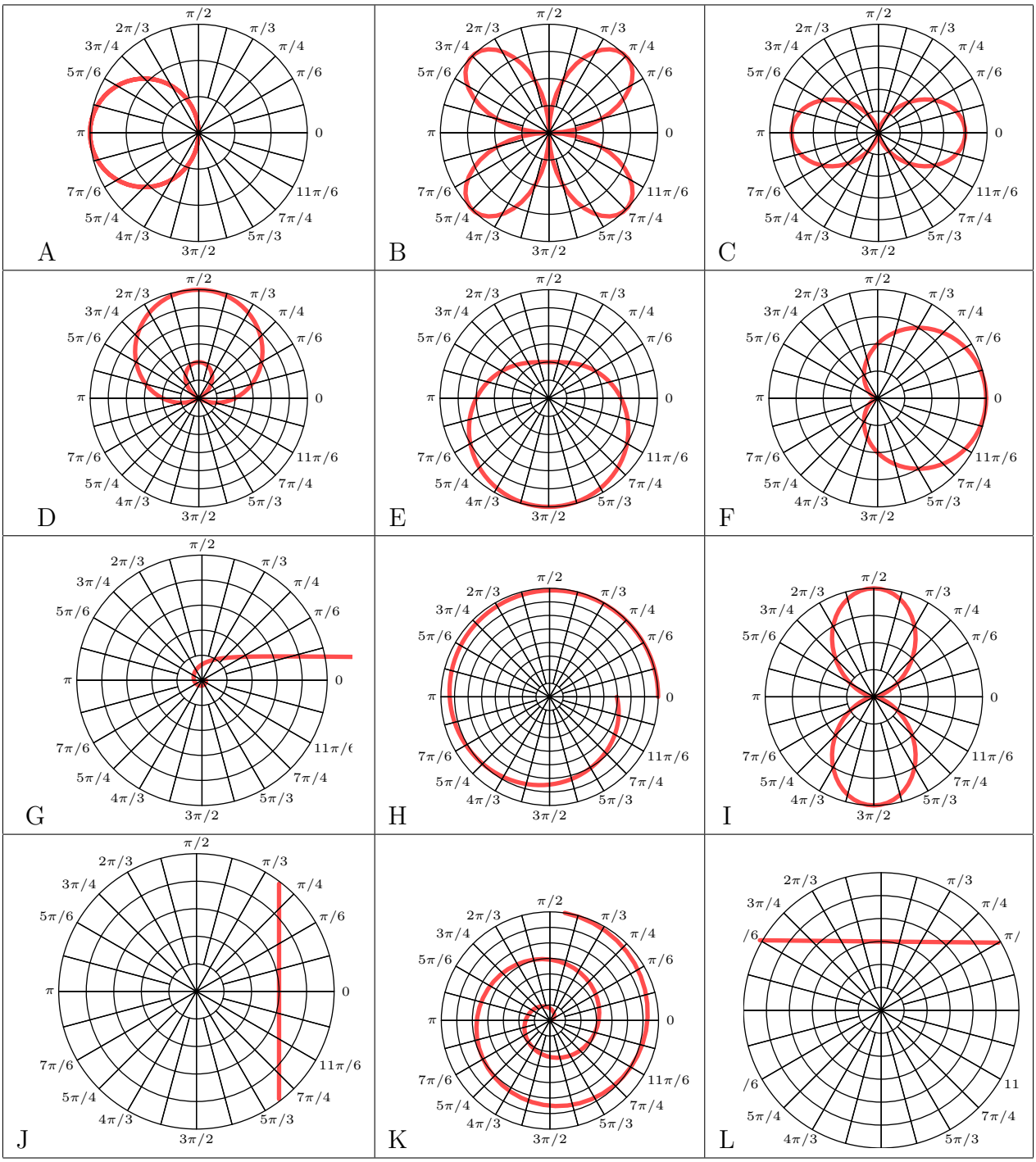
Match the polar graphs to the equations below

Not all equations will match a graph.



1. $r = 2 + 4\sin(\theta)$ **D**
2. $r = 3\sec(\theta)$ **J**
3. $r = 4 + 2\sin(\theta)$ **X**
4. $r = 2 + 2\cos(\theta)$ **F**
5. $r = 4\cos^2(\theta)$ **C**
6. $r = -3\cos(\theta)$ **A**
7. $r = 4 + 2\cos(\theta)$ **X**
8. $r = 4\sin(2\theta)$ **B**
9. $r = 4 - 2\sin(\theta)$ **E**
10. $r = 1/\theta$ **G**
11. $r = \theta/2$ **K**
12. $r = \sqrt{64 - \theta^2}$ **H**
13. $r = 4\sin^2(\theta)$ **I**
14. $r = 3\csc(\theta)$ **L**
15. $r = -\tan(\theta)$ **X**

For each of the following, determine the x and y intercepts, the zeros, and the maximum value of $|r|$

1. $r = 2 + 4\sin(\theta)$
2. $r = 3\sec(\theta)$
3. $r = 4 + 2\sin(\theta)$
4. $r = 2 + 2\cos(\theta)$
5. $r = 4\cos^2(\theta)$
6. $r = -3\cos(\theta)$
7. $r = 4 + 2\cos(\theta)$
8. $r = 4\sin(2\theta)$
9. $r = 4 - 2\sin(\theta)$
10. $r = 1/\theta$
11. $r = \theta/2$
12. $r = \sqrt{64 - \theta^2}$
13. $r = 4\sin^2(\theta)$
14. $r = 3\csc(\theta)$
15. $r = -\tan(\theta)$