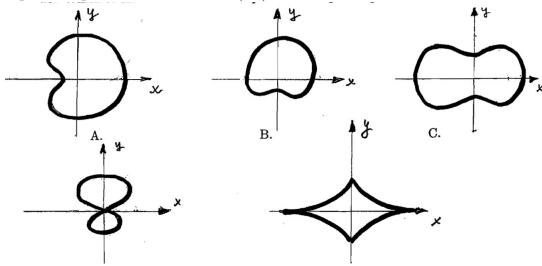
Review Problems

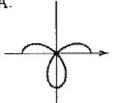
April 5, 2017

1. (Fall 2008, Final Exam, #25) Which of the curves below corresponds to the polar equation $r = 2 + \cos(2\theta)$?

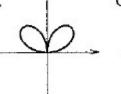


- 2. (Fall 2013, Final Exam, #23) The equation $r\cos\theta + \sin\theta = \frac{2}{r}$ in polar coordinates represents part of
 - A. a straight line
 - B. a circle
 - C. a parabola
 - D. an ellipse which is not a circle
 - E. a cycloid
 - The graph of $r = \cos 2\theta$, $0 \le \theta \le \pi$ looks most like

A.



В.



C.

