

Math 221: Some polar problems

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1. Identify the polar curve with its polar equation.

- (a) $r = 3/2$ (b) $r = \cos(\theta) + \frac{3}{2}\sin(2\theta)$ (c) $r = 2\sin(\theta)$
(d) $r = e^\theta$ (e) $r = 1 + 3\sin(3\theta)$ (f) $r = 2\sin(2\theta)$
(g) $r = \tan(\theta)$ (h) $r = (\cos(\theta) + \frac{3}{2}\sin(4\theta))$ (i) $r = \cos(\theta) - 1$

