

Quiz #2; Tuesday, date: 01/30/2018
MATH 53 Multivariable Calculus with Stankova
Section #117; time: 5 – 6:30 pm
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Student name:

1. Find the slope of the tangent line to the given polar curve at the point specified by the value of θ :

$$r = 1 + \sqrt{2} \cos \theta, \quad \theta = \pi/4.$$

2. *True / False?* It is possible to compute the arc length of a polar curve in form of $r = f(\theta)$ using the arc length formula for parametric curves.
3. *True / False?* The sum of two unit vectors is always a unit vector.