Math 201	Quiz 2(a)	Time: 20 minutes	Date: 22-02-2018		
Name	ID	Sr.#	Sec. 06	Marks (6):-	

Q1. Let R be the region that lies inside $r = 1 + \sin \theta$ and outside r = 1. Sketch R and find its area.

Q2. Find the distance between the midpoint of the line segment through the two points A(1, 2, -3) and B(3, -4, 1) and the x-axis.

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Q1. Let R be the region that lies inside $r = 3(1 - \cos \theta)$ and outside r = 3. Sketch R and find its area.

Q 2. Find the distance between the point A(1, 2, -3) and the sphere that passes through the point (4, 3, -1) and has center (3, 8, 1).

Math 201	Quiz 2(c)	Time: 20 minutes		Date: 20-02-2018
Name	ID	Sr.#	Sec. 08	Marks (6):

Q1. Sketch the polar curve $r = 1 - \cos \theta$ and find its length.

Q2. Find a vector of length 3 in the direction of the vector $\vec{a} + \vec{b}$ where $\vec{a} = \langle 2, 0, -2 \rangle$ and $\vec{b} = \langle 0, 4, 0 \rangle$.

Math 201	Quiz 2(d)	Time: 20 minutes		Date: 20-02-2018
Name	ID	Sr.#	Sec. 08	Marks(6):

Q1. Let R be the region that lies inside $r = 1 - \cos \theta$ and outside r = 1. Sketch R and find its area.

Q2. Let \vec{v} be a vector of magnitude 2 and makes an angle $\frac{3\pi}{2}$ with positive x-axis. Find its component form.