Mechanics I – Quiz 2 - G

	2019-2020
Full Name:	KEY
Choose one of the questions and answer. (2 r	marks)
1. A driver moves his car 10 km due North the travels another 4 km to the North. What is the Answer the question by vector addition met	en 5 km to the East. Finally, he makes a and he magnitude of the displacement of the driver?
10 km / d=7,	We IN B
14km /d	$d^{2} = 14^{2} + 5^{2}$ $d = \sqrt{14^{2} + 5^{2}}$
19km /d -1,	$d^{2} = 14^{2} + 5^{2}$ $d = \sqrt{14^{2} + 5^{2}}$ $d = \sqrt{14^{2} + 5^{2}}$

2. Find the sum of the vectors shown in the figure. Show the angle of the the resultant vector. $d_1 = 4$ m and $d_2 = 2$ m

 \vec{d}_2 70° $\vec{d}_1 = 4m$

 $J_{2} = 44$ $J_{2} = 2 \cos 70 i + 2 \sin 70 j$ $J_{2} = 2 \cdot (0.34) i + 2 \cdot (0.94) j$

R=J,+J2= 4,689+ 1,889

tan 0-= = 1,88 = 0,40

O=tar-(0,40) = 21,8°