

QUIZ NUMBER TEN FOR MTH213 SPRING007 AT 1PM

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Name _____, Id. Num. _____, Score $\overline{15}$

QUESTION 1. Let G be the graph with the following vertices $V = \{(1, 0), (2, 0), (3, 0), (0, 5), (0, 6), (0, 8)\}$. Two vertices $v_1 = (a, b), v_2 = (c, d)$ are connected by an edge if $v_1 v_2 = (ac, bd) = (0, 0)$. Draw the GRAPH. Is it complete? is it Complete bi-partite? Find the diameter and the girth of the graph.

QUESTION 2. Use the algorithm we discussed in the class to find the shortest path from A to E .

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