

Warehouse Problem Merit Grid

Name: _____

Class: _____

Constructed file(s) on Nspire	1 = completed	
Model 1 – First Impressions	1 = one or two features noted 2 = several features noted	
Model 1 – Function Definition	1 = numerically verified that functions i, ii, iv, v are all acceptable 2 = algebraically argued that functions i, ii, iv v are all acceptable 3 = arguing that iv and v are ‘better’ than i and ii	
Model 1 – Graph Analysis	1 = recorded features of original problem’s solution (i.e. the minimum point) 2 = recorded the feature(s) of at least one new family of coordinate points	
Model 2 – First Impressions	1 = one or two features noted 2 = several features noted	
Model 2 – Function Definition	1 = expressions for PA (and PB) clearly derived 2 = expression for PC clearly derived	
Model 2 – Graph Analysis	1 = explained context of either ‘negative x angles’ or ‘other branches of graph’ 2 = explained context of ‘negative x angles’ and ‘other branches of graph’	
Model 3 – First Impressions	1 = one or two features noted 2 = several features noted	
Model 3 – Function Definition	1 = expressions for PA (and PB) clearly derived 2 = expression for PC clearly derived	
Model 3 – Graph Analysis	1 = explore/discover other features of graph, not initially visible 2 = explain/justify other features of graph that are discovered	
Model 4 – Setup	1 = new situation attempted. 2 = variables well defined, with good use of diagrams to assist	
Model 4 – Function Definition	1 = attempt to define an algebraic function for total distance. 2 = assumptions stated and expression for distance function derived.	
Model 4 – Graph Analysis	1 = explore/discover features of graph 2 = explain/justify features of graph that are discovered	
Presentation and Readability	0 = work not submitted in official answer booklet 1 = work is able to be followed at first reading 2 = work is presented to a very high standard of clarity and neatness	

Comments on Performance with Task:

Total: _____/28