Ekurhuleni North	District Paper – Mathematics Paper 2 Grade 11 Marking Guideline	June 2023
SOLUTION **NB. Accept vaid alternate solutions.** **Consistent Accuracy applies applies to the whole memo.**		
QUESTION 1		

1.1	$m_{HM} = \dfrac{6-4}{3+1}$ $= \dfrac{1}{2}$	✓ subs into formula ✓ answer
1.2	$R(x; y) = \left(\dfrac{3+4}{2}; \dfrac{6+1}{2}\right)$ $= \left(\dfrac{7}{2}; \dfrac{7}{2}\right)$	✓ Correct Substitution ✓ Answer
1.3	$m_{HM} = m_{AP}$ $\tan\theta = \dfrac{1}{2}$ $\theta = 26{,}57°$	✓ $HM \parallel AT$ ✓ Correct substitution ✓ Answer
1.4	R is the midpoint of diagonal AH (Diags of a parm) Let the coordinates of A be $(x; y)$. $\dfrac{-1+x}{2} = \dfrac{7}{2}$ $x = 8$ $\dfrac{4+y}{2} = \dfrac{7}{2}$ $y = 3$ $\therefore A(8; 3)$	✓ $\dfrac{-1+x}{2} = \dfrac{7}{2}$ ✓ 8 ✓ $\dfrac{4+y}{2} = \dfrac{7}{2}$ ✓ 3
1.5	$m_{AT} = \dfrac{1}{2}$ (parallel lines) $y = \dfrac{1}{2}x + c$ Sub $T(4; 1)$	 ✓ Sub $T(4; 1)$ ✓ $c = -1$

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