

ATMAS Mathematics Specialist

Test 2

Calculator Free

Name:

Teacher: Mr Smith

Time Allowed : 30 minutes

Marks

/28

Materials allowed: No special materials.

Attempt all questions.

All necessary working and reasoning must be shown for full marks. Where appropriate, answers should be given in exact values. Marks may not be awarded for untidy or poorly arranged work.

| 1 | | Determine which of the following functions are one-to-one. For those functions which are | (6) |
|---|----|--|-----|
| | | one-to-one, find their inverse. | |
| | a) | $(x-2)^2 + (y+3)^2 = 16$ | |
| | b) | $y = \frac{1}{x - 2}$ | |
| | c) | $(x-2)^2 + 4$ | |
| | d) | $(x-2)^3 + 4$ | |
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