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| Obtain Mark: | **Trigonometry** | Time: 40 min |
| **Date**: Thursday, August 8, 2024 | Total Mark: 54 |

1. If tan**=** tanshow that, sec= . [page: 118]
2. If x=5 prove it , - = 4
3. If **=** and cos **=** kcos**,** then prove that, tan ()= cot **. [page: 111]**
4. If  **= cosecB + secB,** then show that, tanA.tanB = cot ()**. [page: 103]**
5. Given, tan =tan3 and **tanΦ=2tanα** now prove it , θ+Φ=2α.
6. If sinθ= prove that, tan( − ) = ±.
7. Prove it,(cosθ+isinθ)3 = cos3θ+isin3θ, when i=
8. Solve for x, If  **+**  = **. [page: 89]**
9. If sinα = prove that, = .
10. If x=10 prove that, = **. [page: 87]**
11. Solve the equation:  **+**  = **. [page: 82]**
12. Prove that,  = **. [page: 73]**
13. Prove that,  **+**  = **. [page: 69]**
14. Evaluate:  **+**  + + . **[page: 63]**
15. If A+B+C= 𝜋 prove that, cotBcotC+cotCcotA+cotACotB=1