



Samroi-yod Wittayakhom School

Math22101

40 minutes

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TASK No. 4

Semester 1 / M.3

10 marks

QUADRATIC EQUATIONS IN ONE VARIABLE

Test 1: State if these statements are quadratic equations in one variable.

1. $x^2 = x$

2. $x^2 - 9x + 9 = 0$

3. $x^2 = 7 + y$

4. $x = \frac{1}{x} + 5$

5. $x^2 = 3 + \frac{1}{x}$

Test II. Determine if the following values are the roots of $2x^2 - 7x - 15 = 0$

6. $x = 5$

7. $x = -5$

8. $x = -2$

9. $x = -\frac{3}{2}$

10. $x = 1$

Test III. Identify the roots of the following quadratic equations. You can use trial and error method, factoring method, or by quadratic equation formula.

11. $x^2 + 4x + 3 = 0$

12. $2x^2 + 7x + 3 = 0$

13. $x^2 + 5x - 36 = 0$

14. $x^2 - 10x + 25 = 0$

15. $2x^2 - x - 10 = 0$