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GATITU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU. FORM 3 MATHEMATICS TUNE UP EXAMINATION. TERM 1 2015.

1. Make P the subject of the formula.

(3mks

$$S = \sqrt{\frac{m}{2t} \left(n^2 - p^2\right)}$$

2. Given that $4x^2 - 3^2x - 2tk$

is a perfect square. Find k

(3mks

3. Use matrix method to solve the simultaneous equation.

(4mks

$$3p - 4q = 2$$

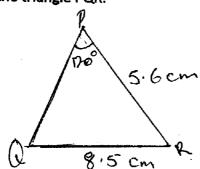
$$5p + 3q = 13$$

4. Without using Mathematical tables or calculators express in surd form and simplify. (3mks

5. Truncate to 2 significant figures and calculate the percentage error.
a) 8.572 (3mks

b) 2.718 (2mks

6. Solve the triangle PQR.



(4mks

7. Express in surd form and simplify by rahonalising the denominator.

(4mks

8. Simplify $\log (x+1) - \log (x^2 - 1)$

(3mks