IMPORTANT MATHEMATIGAL PROBLEMS."

- Find the area of a triangle whose sides are, √3, √5, √6. Ans. √3^{1/2}.
 The square inscribed in a circle : square in a simicircle :: 5 : 2.
- 3. The square inscribed in a semicircle: square in quadrant :: 8:5.
- 4. If an isosceles triangle inscribed in a circle have each of its sides double of the base, the squares described upon the radius of the circle and one of the sides of the triangle, shall be to each other as 4 : 15.
- 5. If r denote the radius of a circle, the side of the inscribed square will be $r \sqrt{2}$, and the side of the circumscribed square will be 2 r.
- 6. If a denote the side of a given square, rad of inscribed circle shall be $\frac{1}{2}a$, and radius of the circumscribed circle will be $\frac{a}{2}\sqrt{a}$.

The rectangle under two sides of any triangle is equal to the rectangle under the perpendicular

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