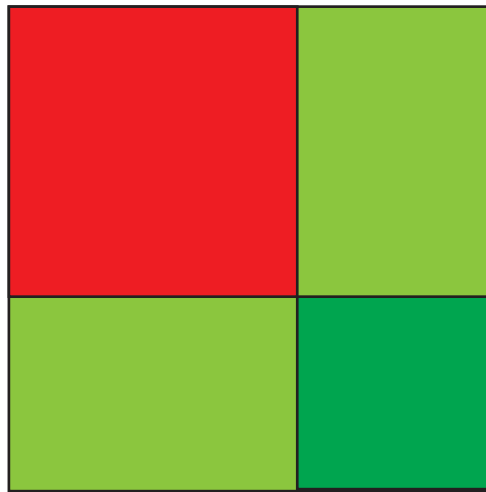
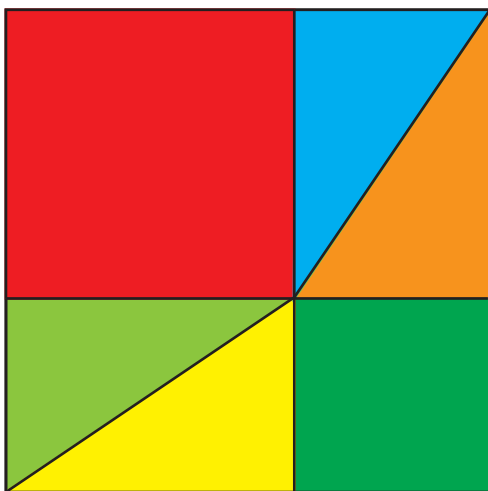


Proofs without words

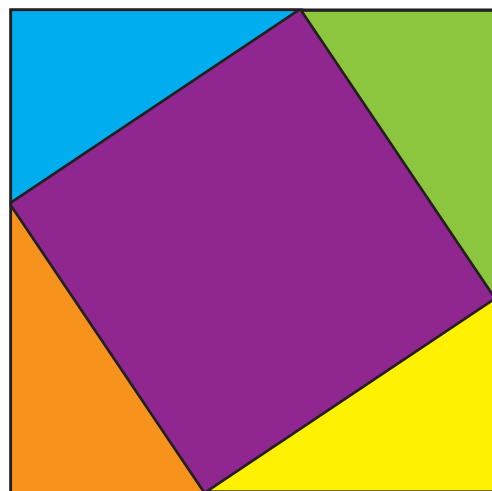
1. $(a + b)^2 = a^2 + b^2 + 2ab$



2. Pythagorean Theorem: $a^2 + b^2 = c^2$

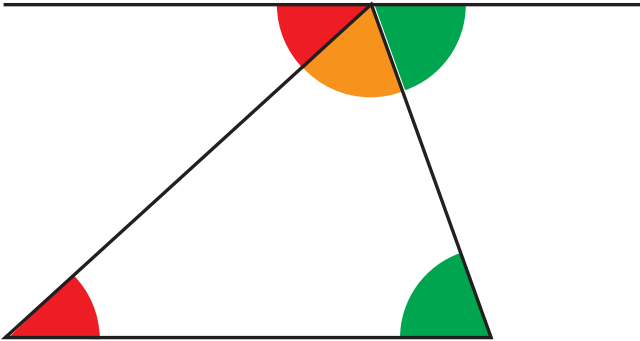


$(a + b)^2 = a^2 + b^2 + 2ab$

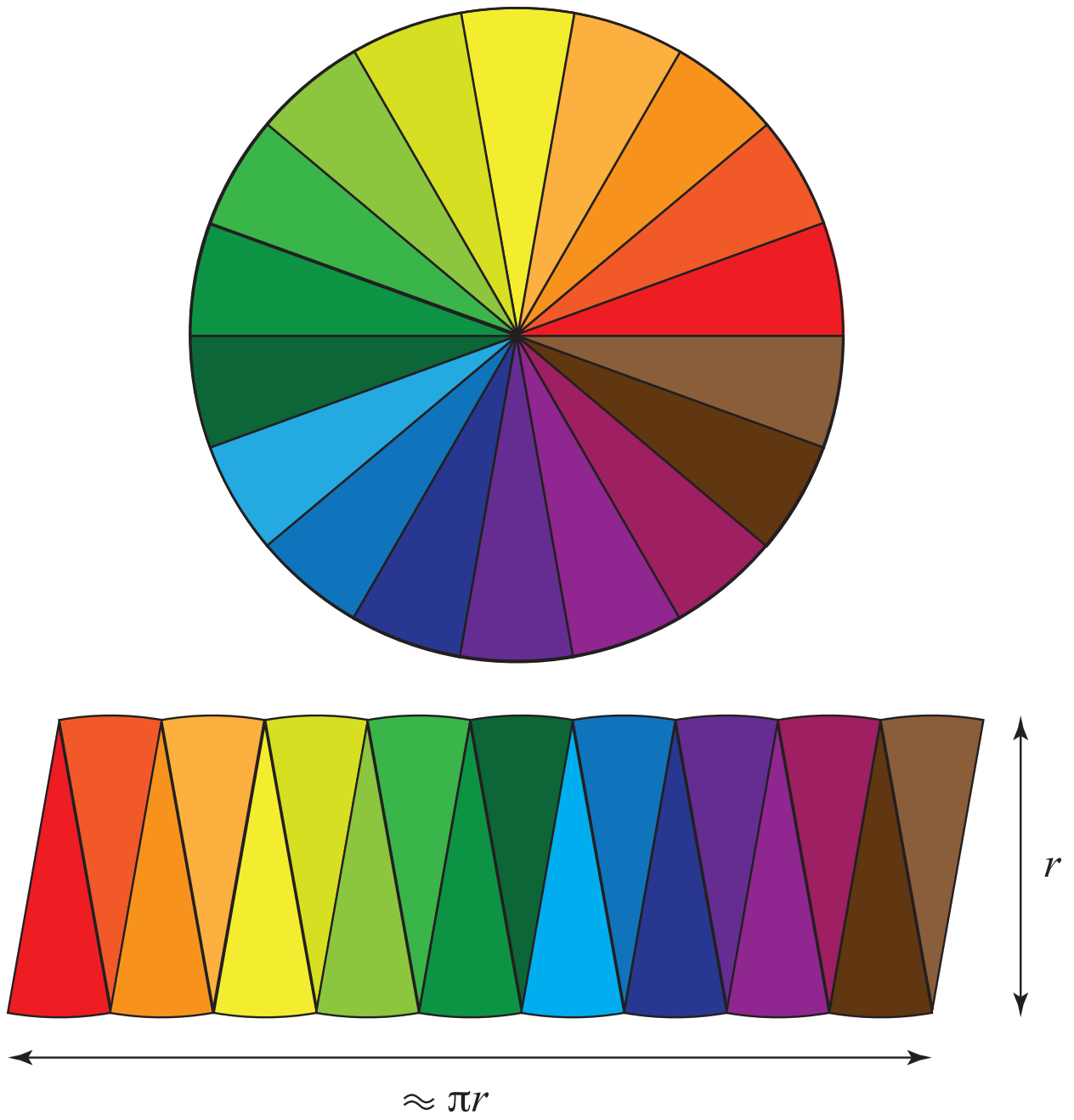


$(a + b)^2 = c^2 + 2ab$

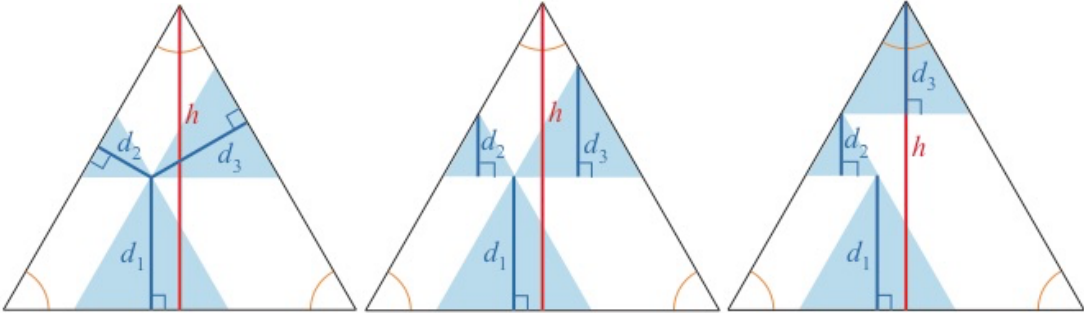
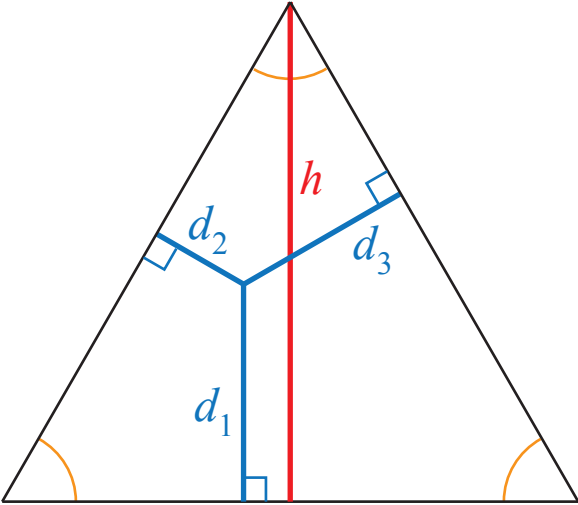
3.



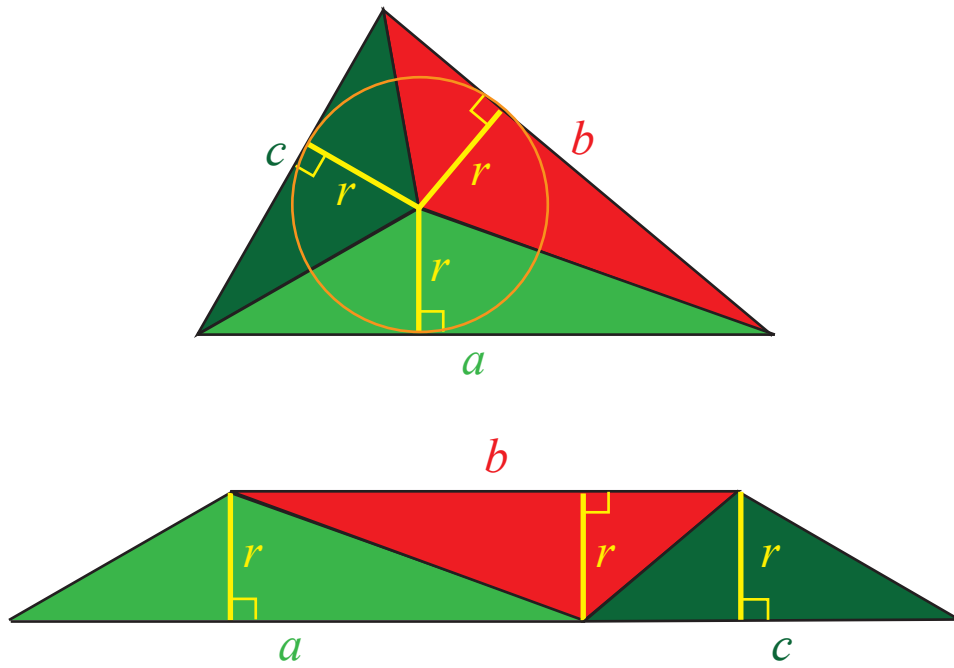
4. $A = \pi r^2$



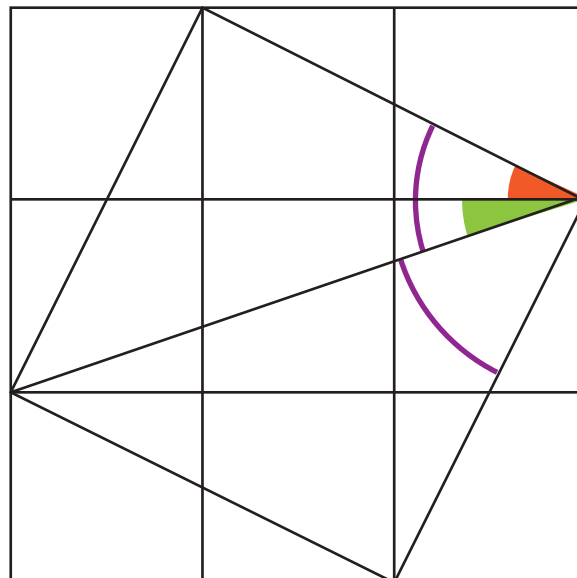
5. Viviani's Theorem: $d_1 + d_2 + d_3 = h$



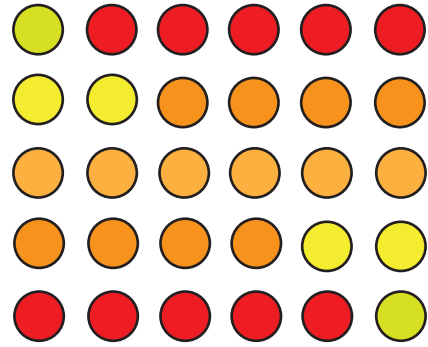
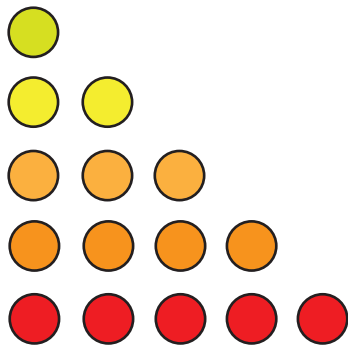
$$6. A = \frac{1}{2}r(a + b + c)$$



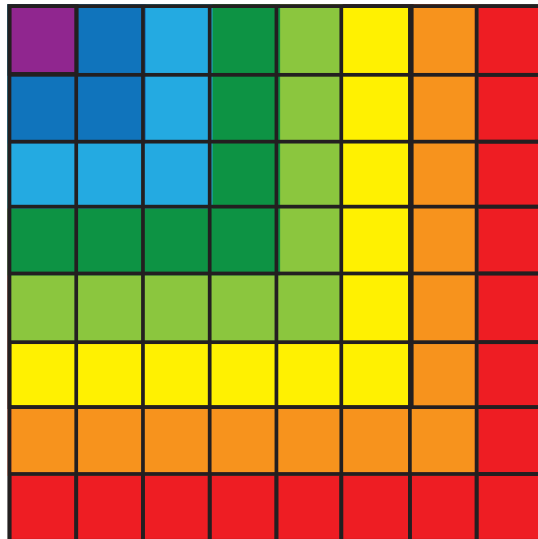
$$7. \arctan \frac{1}{2} + \arctan \frac{1}{3} = \arctan 1$$



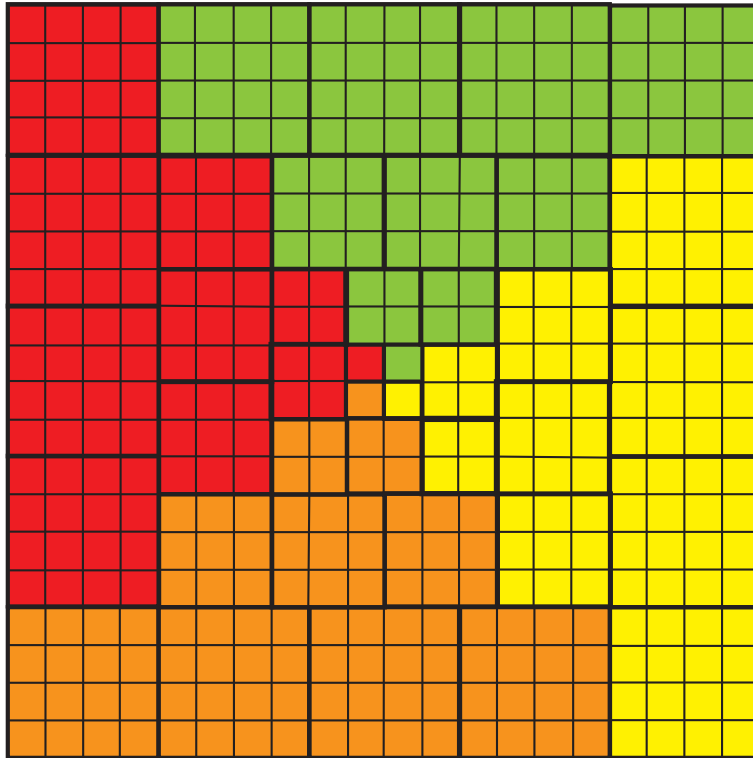
8. $1 + 3 + \dots + (2n - 1) = n^2$



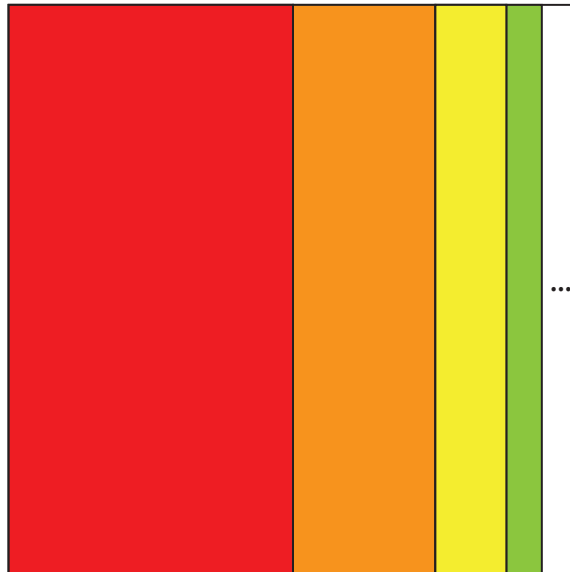
9. $1 + 3 + \dots + (2n - 1) = n^2$



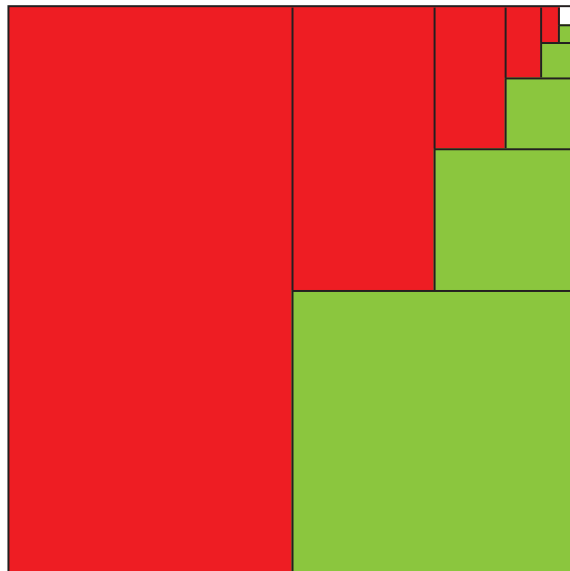
$$10. 1^3 + 2^3 + 3^3 + \dots + n^3 = \frac{1}{4}(n \times (n + 1))^2$$



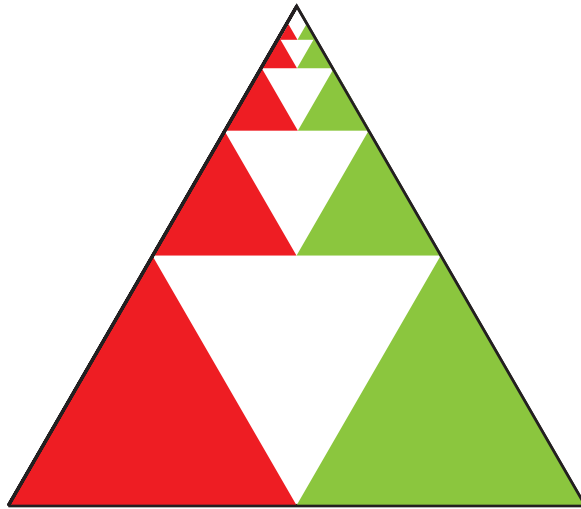
$$11. 1 = \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots$$



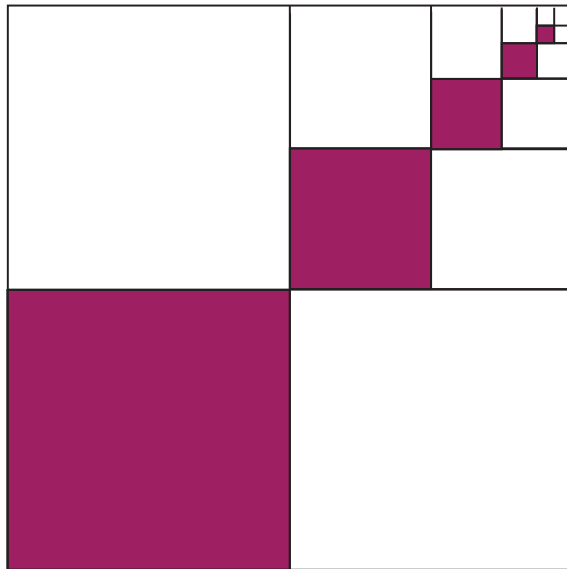
$$12. \frac{1}{3} = \left(\frac{1}{4}\right) + \left(\frac{1}{4}\right)^2 + \left(\frac{1}{4}\right)^3 + \left(\frac{1}{4}\right)^4 + \dots$$



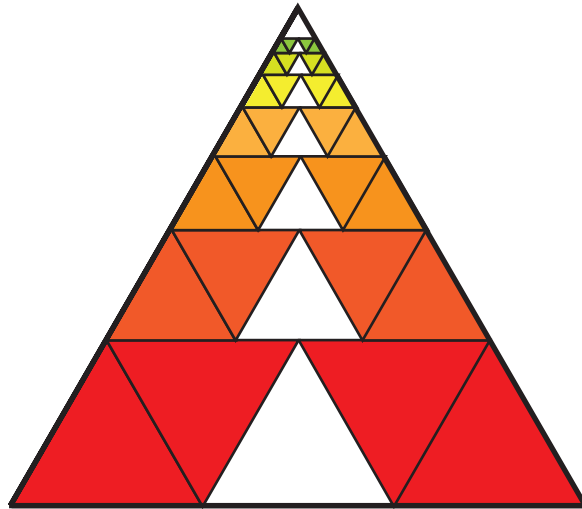
$$13. \frac{1}{3} = \left(\frac{1}{4}\right) + \left(\frac{1}{4}\right)^2 + \left(\frac{1}{4}\right)^3 + \left(\frac{1}{4}\right)^4 + \dots$$



$$14. \frac{1}{3} = \frac{1}{4} + \left(\frac{1}{4}\right)^2 + \left(\frac{1}{4}\right)^3 + \left(\frac{1}{4}\right)^4 + \dots$$



15. $\frac{1}{5} = \frac{1}{9} + \frac{1}{9} \times \frac{4}{9} + \frac{1}{9} \times \left(\frac{4}{9}\right)^2 + \frac{1}{9} \left(\frac{4}{9}\right)^3 + \dots$



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