



## Pwouve san ekri

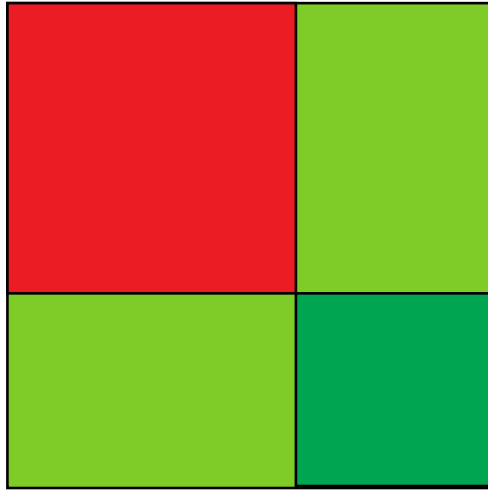
### Premye nivo

Men kèk prèv san pawòl ou kapab diskite yo ak elèv ou yo. Tit yo se sa nou vle pwouve yo, desen yo se prèv yo.

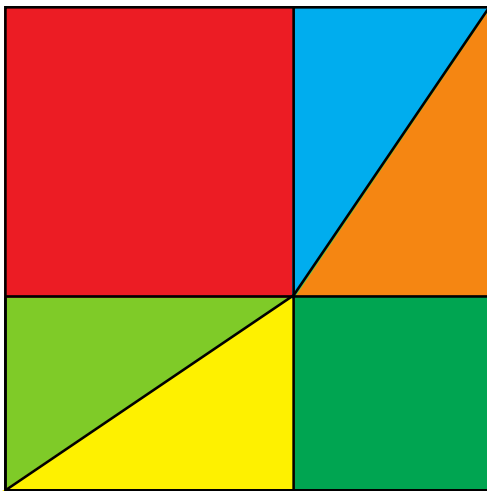
Travay nan klas yo :

- Nan prèv 1 ak 2 an, bay sa nou ap pwouve yo.
- Montre desen yo epi kite elèv yo reflechi pandan yon nan gwoup yo.
- Pwopoze elèv yo pou yo kapab bay eksplikasyon prèv yo devan klas la.
- Pou Prèv 3 ak 4 lan, mande elèv yo eseye imajine ki sa yo vle pwouve an. (Pou prèv 3 a se sòm ang enteryè yon triyang ki egal ak  $180^\circ$ . Pou prèv 4 la yon agiman rechèch ki montre è yon sèk se reyon miltipliye ak mwatye sèk lan. Ou ka diskite ak elèv yo sou mwayen sa pou nou rive kalkile è yon sèk.

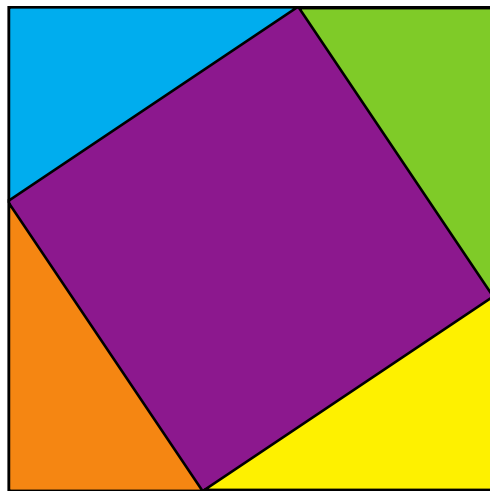
1.  $(a + b)^2 = a^2 + b^2 + 2ab$



2. Teyorèm Pythagore :  $a^2 + b^2 = c^2$

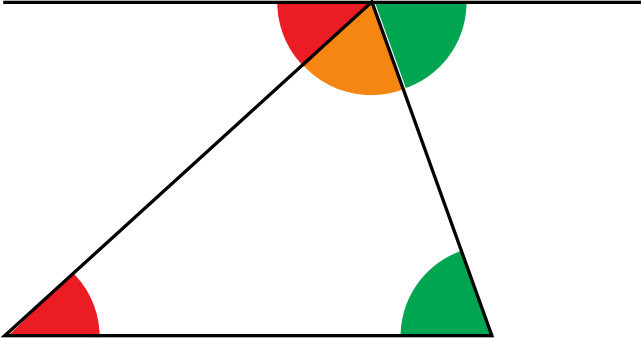


$(a + b)^2 = a^2 + b^2 + 2ab$

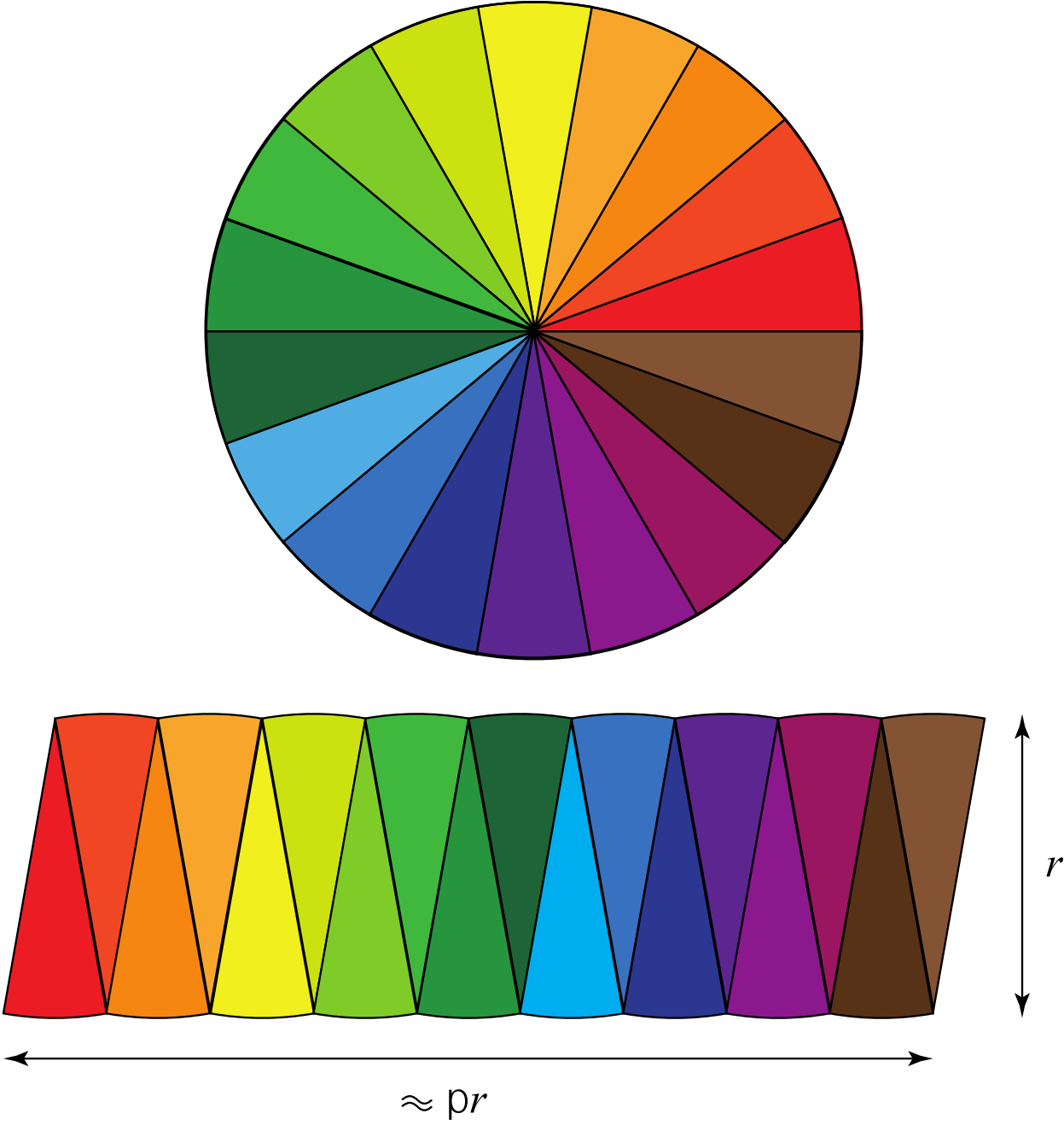


$(a + b)^2 = c^2 + 2ab$

3. Bay yon tit :

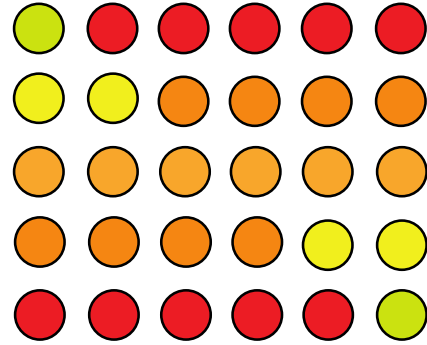
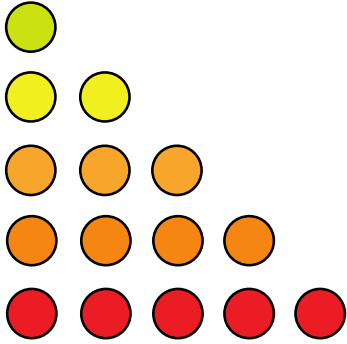


4.  $A = \pi r^2$

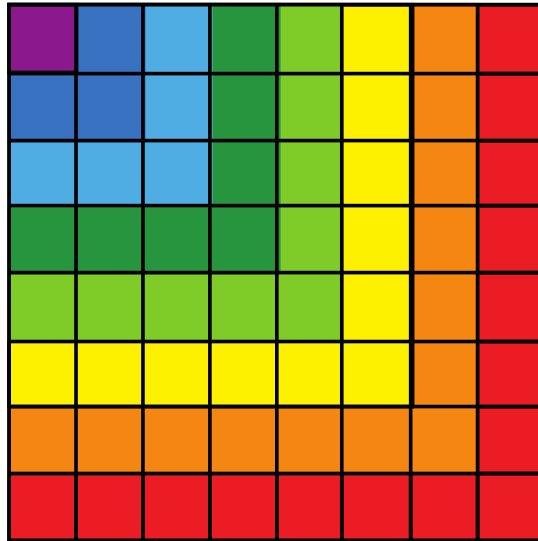


## Dezyèm nivo

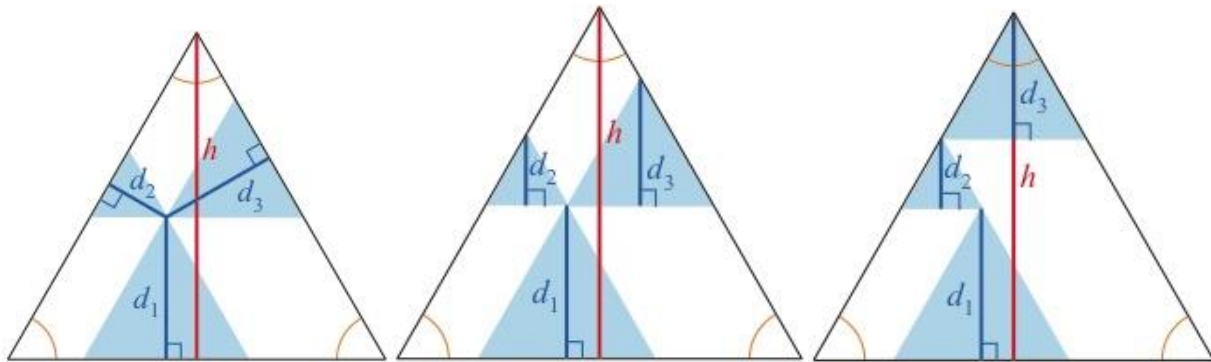
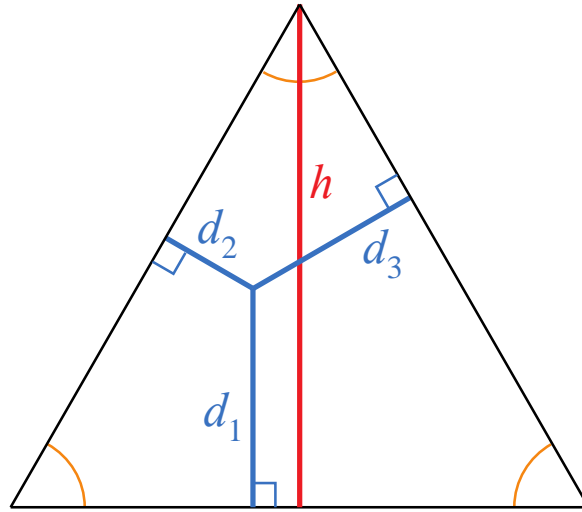
$$5. 1 + 2 + \dots + n = \frac{n(n+1)}{2}$$



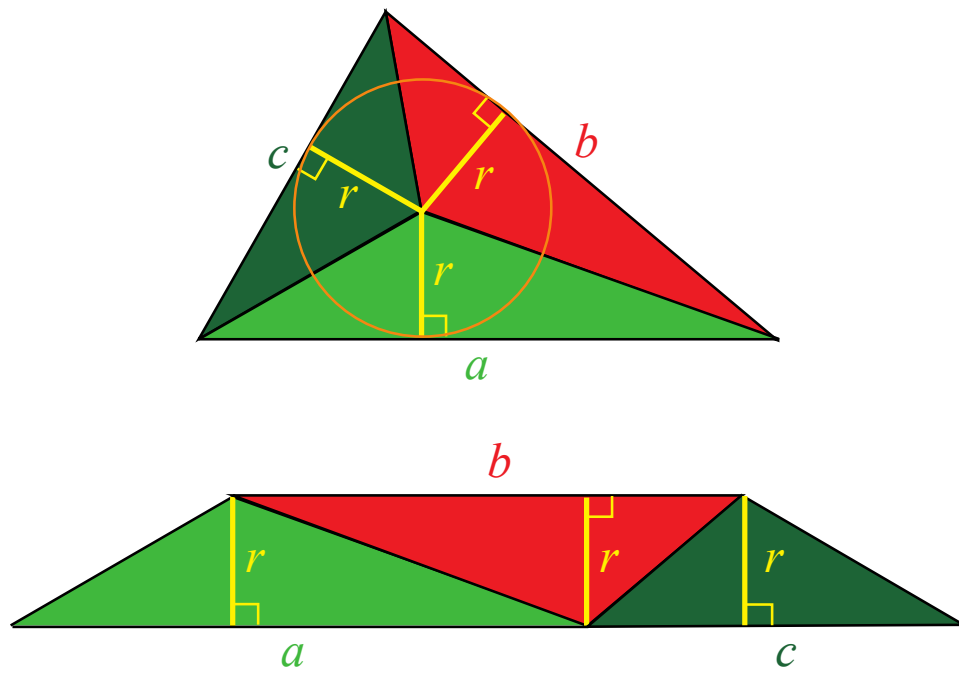
$$6. 1 + 3 + \dots + (2n - 1) = n^2$$



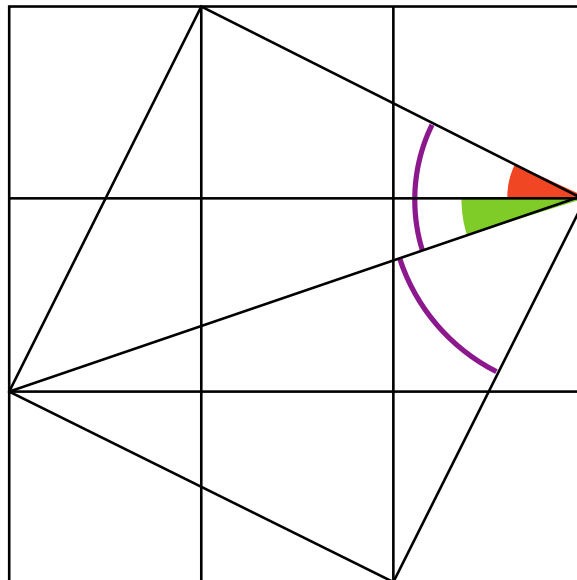
7. Teorèm Viviani :  $d_1 + d_2 + d_3 = h$



$$8. A = \frac{1}{2}r(a + b + c)$$

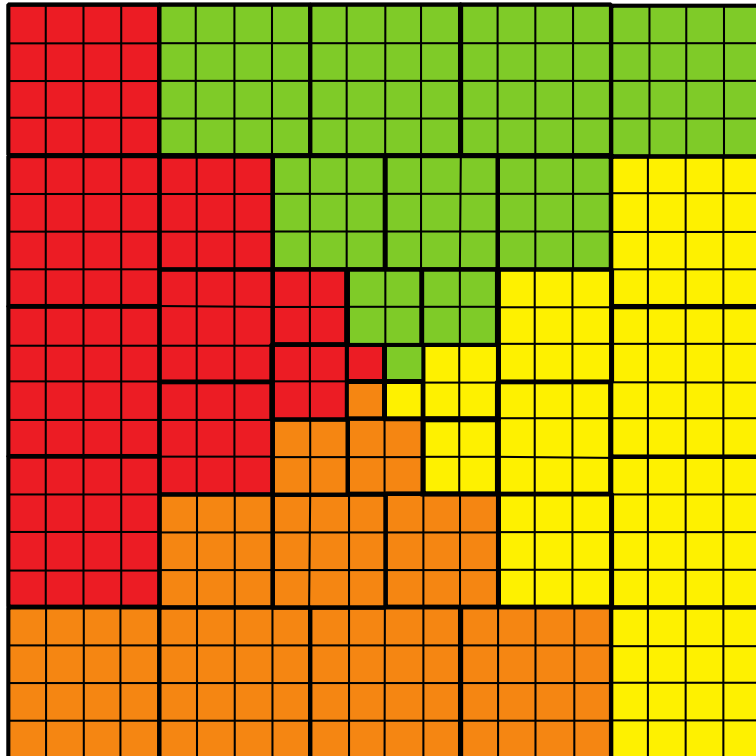


$$9. \arctan \frac{1}{2} + \arctan \frac{1}{3} = \arctan 1$$



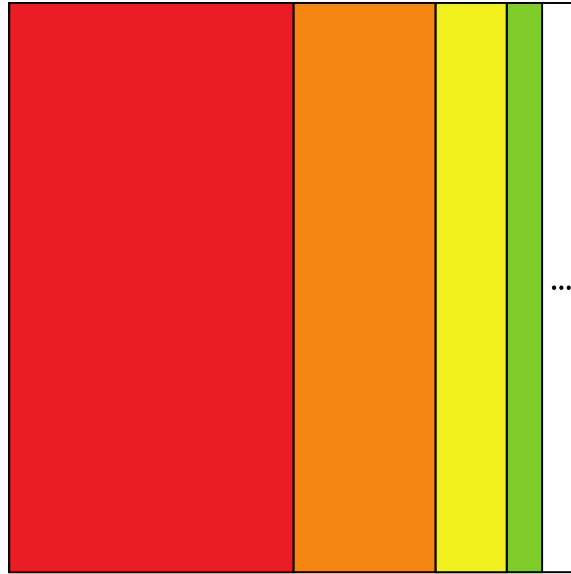
## Twazyèm nivo

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

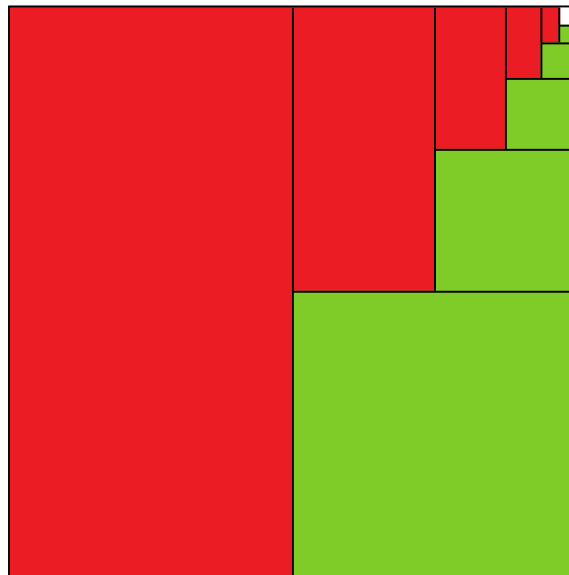




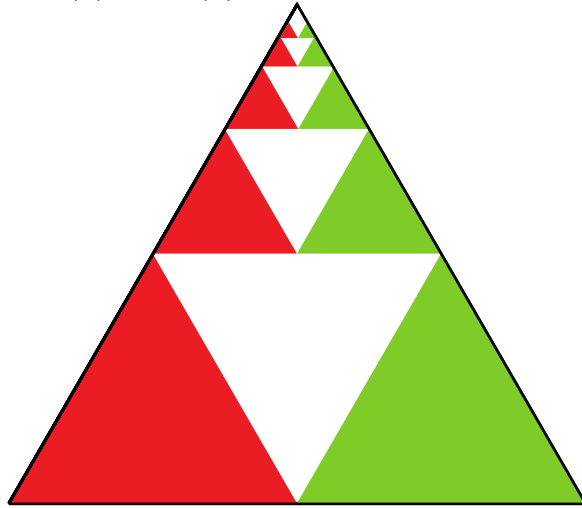
$$11. 1 = \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \dots$$



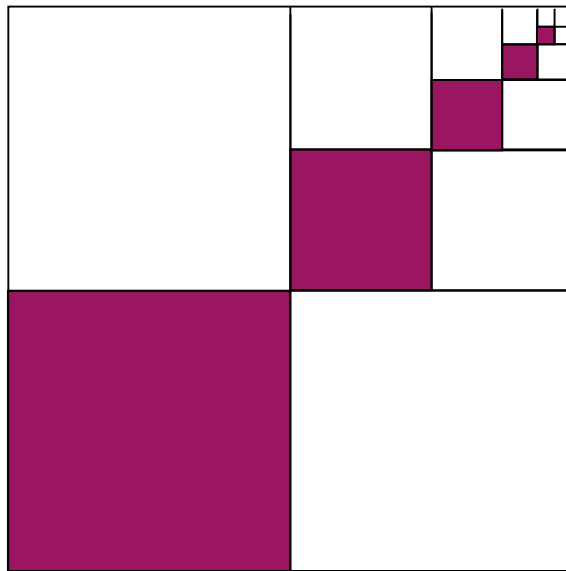
$$12. \frac{1}{3} = \left(\frac{1}{4}\right) + \left(\frac{1}{4}\right)^2 + \left(\frac{1}{4}\right)^3 + \left(\frac{1}{4}\right)^4 + \dots$$



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



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



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

