

Presentation

Made By Chen_Py



21 Hiter





Keep Curious and Be Creative

English Presentation

Speaker: Chen_Py

Keep Curious

Maintain childhood curiosity

Maintain childhood curiosity



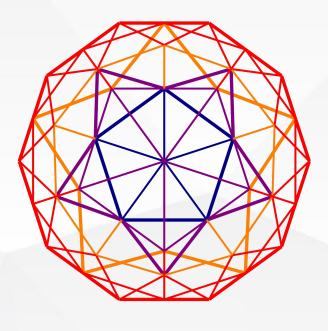
Maintain childhood curiosity



How many points and triangles? 42 80







Keep Curious

- Maintain childhood curiosity
- Don't let your major limit your development



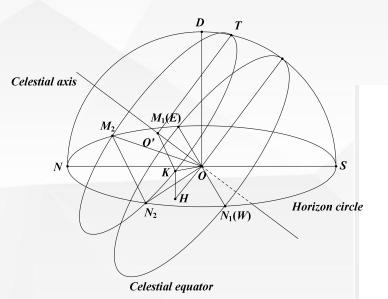
Keep Curious

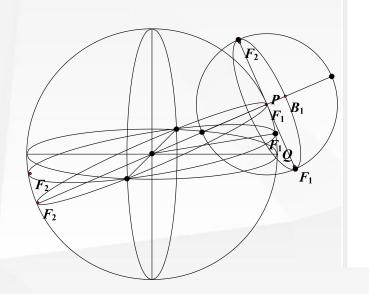
- Maintain childhood curiosity
- Don't let your major limit your development
- Find questions in life and find answers in learning

The Autumnal Equinox



6:00





$$\frac{y^2}{R^2} + \frac{x^2}{(aR)^2} = 1 \tag{1.2}$$

联立①、②式, 得

$$\begin{cases}
y^{2} = \frac{(a^{2} - b^{2})R^{2}}{a^{2} - 1} \\
(a^{3} - b^{2})R^{2}
\end{cases}$$
(13)

 $x^{2} = bR - \frac{a^{2} - 1}{a^{2} - 1}$ (1.4)

设层长角为σ

$$\tan \angle \sigma = \frac{y}{x} = \sqrt{\frac{y^2}{x^2}}$$

③式除以④式得

$$\frac{y^{2}}{x^{2}} = \frac{(a^{2} - b^{2})R^{2}}{a^{2} - 1} \\ bR - \frac{(a^{2} - b^{2})R^{2}}{a^{2} - 1}$$
(1.5)

化简, 得

$$r = \frac{1}{a} \sqrt{\frac{a^2 - b^2}{b^2 - 1}}$$
(1.6)

$$\tan \sigma = \frac{1}{\sin \alpha} \sqrt{\frac{\sin^2 \alpha - \cos^2 \beta}{\cos^2 \beta - 1}}$$
(1.7)

则有

$$\sigma = \arctan \left(\frac{1}{\sin \alpha} \sqrt{\frac{\sin^2 \alpha - \cos^2 \beta}{\cos^2 \beta - 1}} \right)$$
 (1.8)

设日长为 T. 则

$$T = \frac{\text{EK}\hat{\Pi}}{180^{\circ}} \times 12h = \frac{2\angle\sigma}{180^{\circ}} \times 12h = \frac{\angle\sigma}{90^{\circ}} \times 12h$$
 (1.9)

$$T = \frac{\arctan \left(\frac{1}{\sin \alpha} \sqrt{\frac{\sin^2 \alpha - \cos^2 \beta}{\cos^2 \beta - 1}}\right)}{\cos^2 \beta - 1} \times 12h$$
(1.10)

若直射点与观测点在同一半球,则上述方法计算的为夜长,当用 24h-T 求出日长。 因为无论在地球的哪个地方,正午时间均为 12:00。则可用正午时间减去昼长的一半 计算理论日出时间。设理论日出时间为 t,则有t

```
84
     double dayday(int a,int b)//计算偏离春分天数
87
         int aa=3,bb=21;
88
         int i;
89
         for(i=0;a!=aa||b!=bb;i++)
90 =
91
             if(b==yue[a])
92 =
93
94
95
96
97
98
99
                 if(a==12)a=1,b=1;
                 else a++,b=1;
             else b++;
         if(i>365/2)i=365-i;
         return i;
100
     double oumega(int i)//计算公转偏角
102 🗏 {
103
         double jiao=fabs(90-jiaojiao*i);
         double omega=90-jiao;
         if((ba>3&&ba<9)||(ba==3&&ab>21)||(ba==9&&ab<23))omega=-omega;
         return omega;
107
     double chiwei(double omega)//计算赤纬
109 🗏 {
110
         omega=turn(omega);
         double huang=turn(23.433333333);
111
112
         double chiwei=asin(sin(omega)*sin(huang));
113
         return chiwei;
114
     int main()//主函数
```

Interest is the best teacher

Be Creative

Feeling the sense of achievement while Creating

How to be happy to creat

- Try to make something that you never thought you can make.
- Tell the creating progress to your partner.
 - Especially to a girl.

Be Creative

- Feeling the sense of achievement while Creating
- PjBL: Learning while Creating

Learning while Creating

- To new knowledge: Requirement is the second best teacher
- To old knowldege: Practice makes perfect
- Creating is a process of learning and practicing

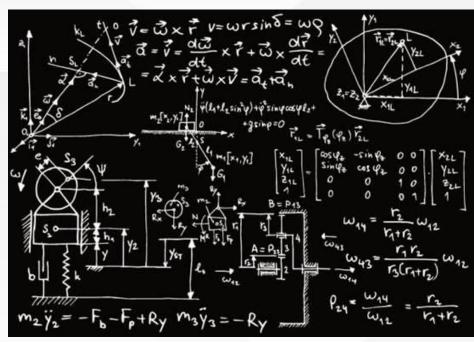
Be Creative

- Feeling the sense of achievement while Creating
- PjBL: Learning while Creating
- Take what you have learnt into use

- Difference between Engeneering and Science
- Why there is no Nobel Prize in math?

Research & Apply

Science & Engeneering



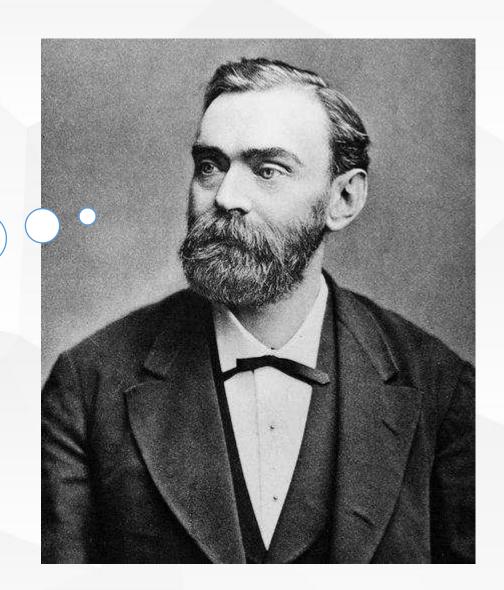
Science Enge Research A



Engeneering Apply

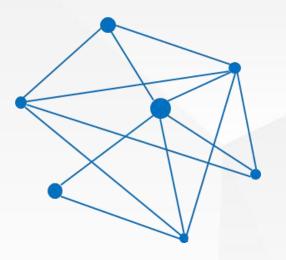
No Nobel Math Prize

People can't benefit directly from Math



Summary

- Be curious enough to find problems and be creative enough to save problems
- Broaden your horizon and not just stick to your major
- Interesting and Requirement. Practice makes perfect
- Feel the joy of applying knowledge
- Improve Happily, No Process Elimination



Thanks for Listening

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