



Hidden World of Parabolas

Team 4

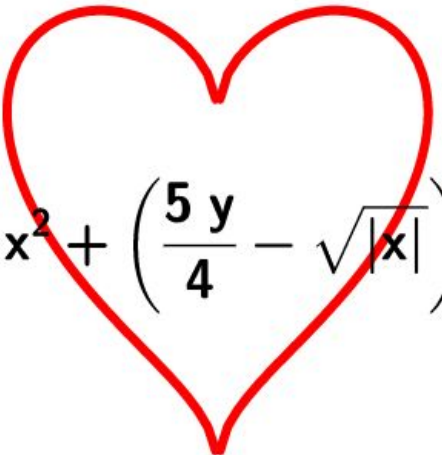
eTwinning collaborative presentation



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“MATHEMATICS IS THE QUEEN OF THE SCIENCE”

CARL FRIEDRICH GAUSS


$$\text{eq1 : } x^2 + \left(\frac{5y}{4} - \sqrt{|x|} \right)^2 = 1$$



Connection of mathematics with other school subjects

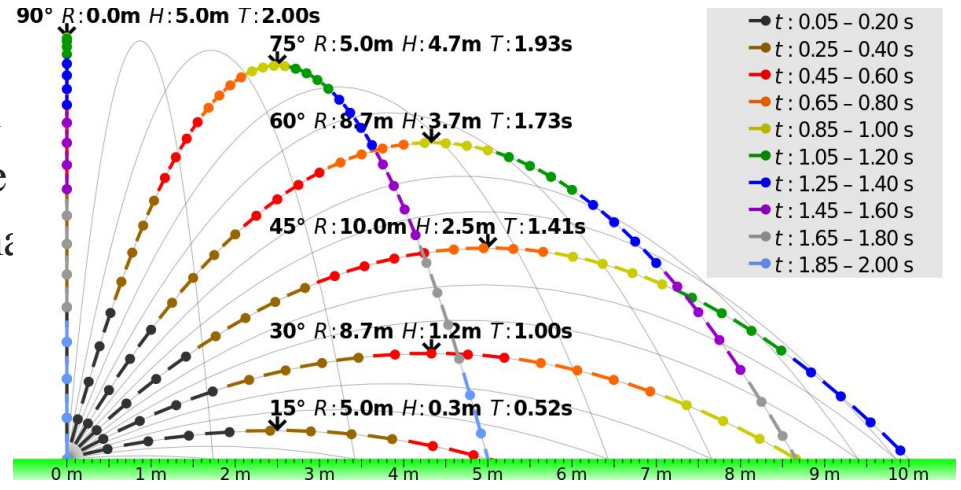
1. Each student make a page with an example.
2. Each student discover with which subject is correlated some other example.

An example

U fizici, parabola (točnije, krivulja) je ravna ili zakrivljena crta na grafu koja pokazuje kako se vrijednosti jedne veličine mijenjaju u odnosu na promjenu vrijednosti druge veličine.

Parabolu u fizici možemo pronaći kod vertikalnog hitca, kao što je prikazano na slici.

- Stela Fafandel

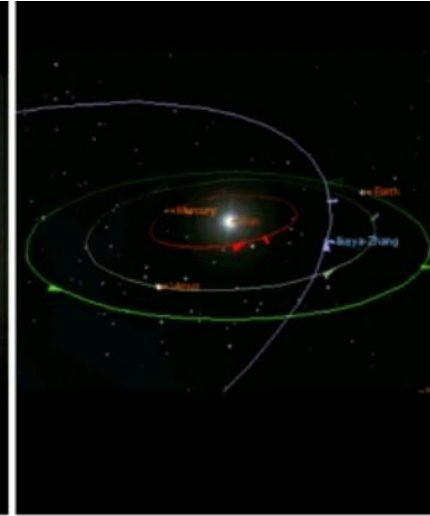
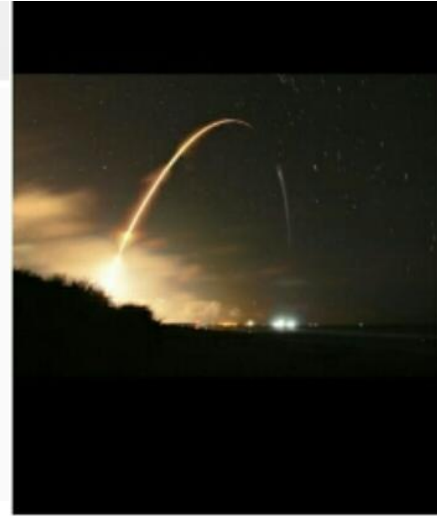


A school subject (correlated with this example)

Fizika

IKEYA ZHANG COMET

the comet ikeya zhang, which is a parabola. Due to a gelii occurring in the star, it created a parabola. As it turns out, if we look at the angle of arrival of the star and according to astronomical research about it, we can understand that the comet of ikeya zhang was observed from the world by drawing a parabola.



Fatmanur F(Şahin Şen Girls Anatolian Imam Hatip High School)

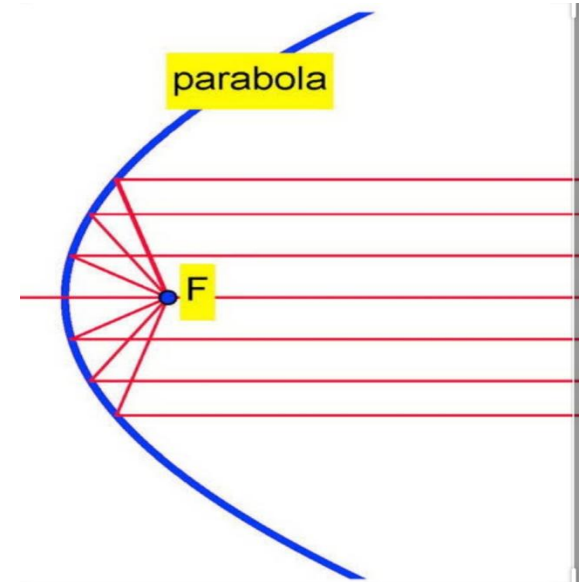
A school subject (correlated with this example)

An example

Parabolic mirror. A concave mirror whose cross-section is shaped like the tip of a parabola. Most of the light, radio waves, sound, and other radiation that enter the mirror straight on is reflected by the surface and converges on the focus of the parabola, where being concentrated, it can be easily detected

Halime A(Şahin Şen Girls Anatolian Imam Hatip High School)

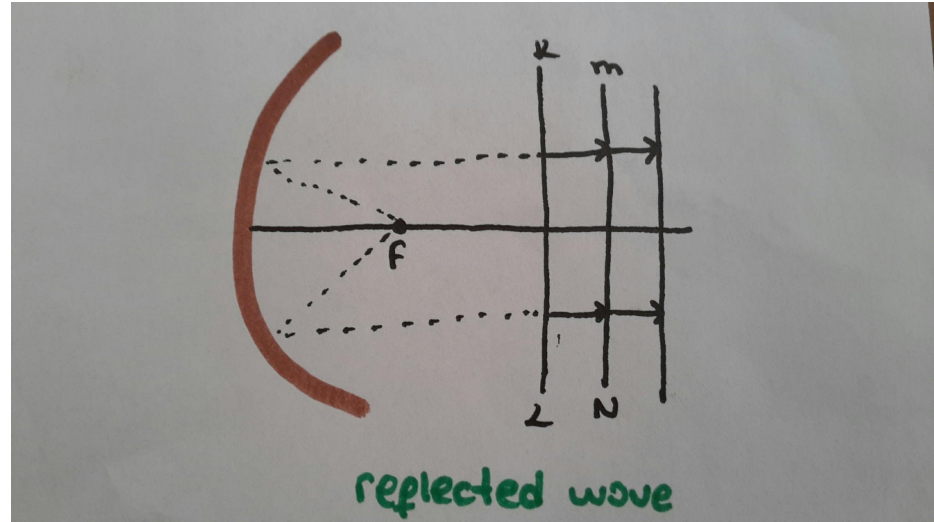
www.dictionary.com



A school subject (correlated with this example)

An example

After the trough obstacle reflects the linear waves coming from the obstacle, the waves gather at the focal point of the obstacle. The parabolic wave from the focus of the hollow obstacle reflect lineary from the obstacle (Fatmanur F-Halime A/Şahin Sen)

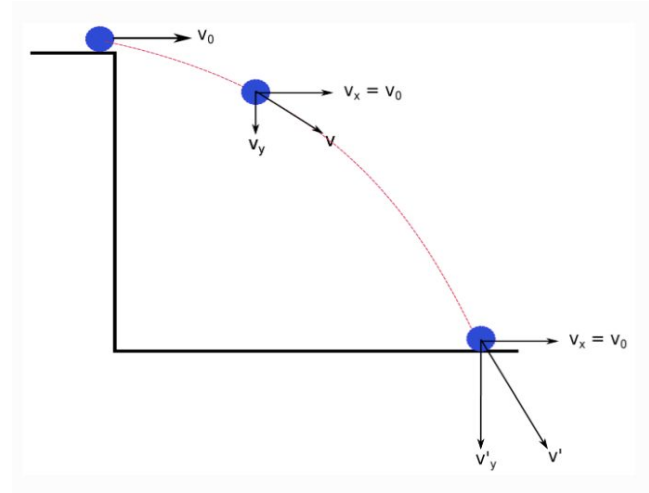


A school subject (correlated with this example)

An example

Horizontal jump movement is a movement of two dimensions. Moves along both the x axis and the y-axis. The combination of the two creates the horizontal jump movement trajectory. The trajectory of the ball thrown horizontally from the top of a high building is as in the picture next door. I mean, it's parabolic.

(Şahin Şen Girls Anatolian Imam Hatip High School)



A school subject (correlated with this example)



Dear team partners,

Thank you!