

Parabola – aplikace

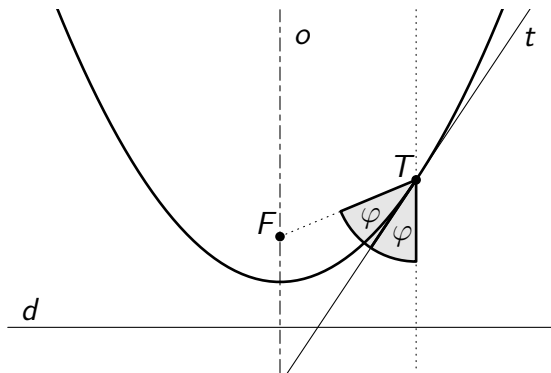
Vlastnost tečen paraboly

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Vlastnost tečen paraboly

Věta

Tečna v bodě T paraboly půlí vnější úhel svíraný průvodičem bodu T a přímkou, která prochází bodem T a je rovnoběžná s osou paraboly.



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Solární vařiče a pece



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Parabolické antény



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Parabolické ohřivače a parabolická světla



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Přenos zvuku



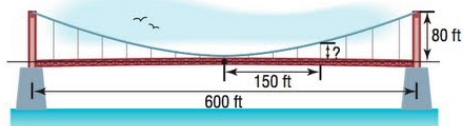
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Visuté mosty



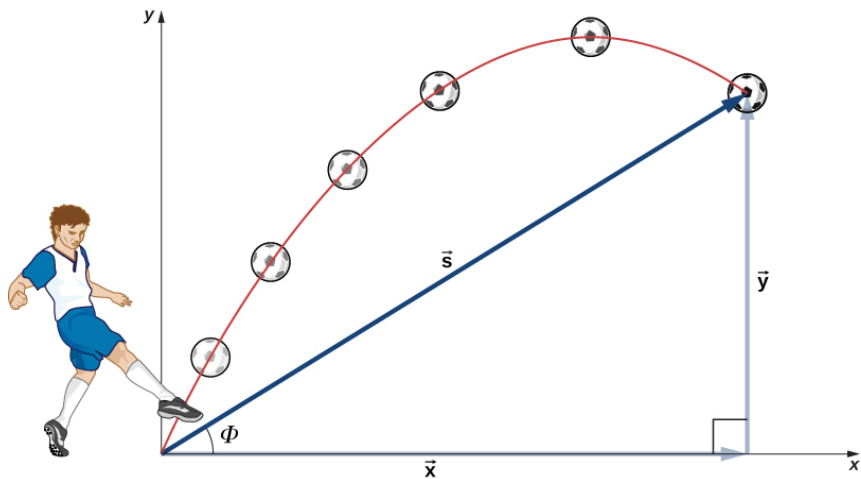
Úloha 1

Suspension Bridge The cables of a suspension bridge are in the shape of a parabola, as shown in the figure. The towers supporting the cable are 600 feet apart and 80 feet high. If the cables touch the road surface midway between the towers, what is the height of the cable from the road at a point 150 feet from the center of the bridge?



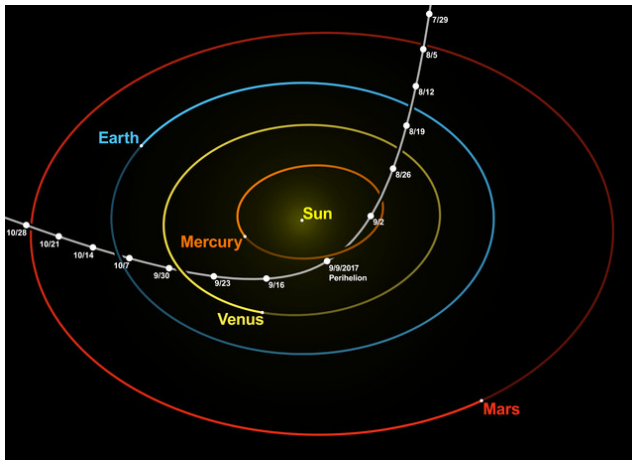
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Vrh



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Parabolické trajektorie vesmírných těles



trajektorie objektu 1I/'Oumuamua

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Kolik parabol vidíte na obrázku?



Zdroje obrázků

- <https://i.pining.com/originals/f1/ba/dc/f1badca3c072e1761e9054d5a8ccba3f.png>
- https://g.denik.cz/122/05/kolektor-jpg_denik-630.jpg
- <https://m.tvsatshop.cz/resize/e/800/800/files/fuba/80cm.jpg>
- <https://i.stack.imgur.com/x08DY.jpg>
- https://images-na.ssl-images-amazon.com/images/I/510iGTcnVrL._AC_.jpg
- <https://www.adorama.com/images/Large/gop901.jpg>
- <https://i.pining.com/originals/15/ff/3f/15ff3f72ccaf95d0b0ae8b2a0d7d4360.jpg>
- <https://sanfrancisco.cbslocal.com/wp-content/uploads/sites/15116056/2013/04/baker-beach-near-the-golden-gate-bridge.jpg?w=1500>
- <https://i.ytimg.com/vi/WocbNIBXD5w/hqdefault.jpg>
- <https://openstax.org/resources/9e3e2eafa36aebff3bd348ccfddf01346266851>
- https://english.tachyonbeam.com/wp-content/uploads/sites/2/2018/02/640px-0umuamua_orbit_at_perihelion.jpg
- <https://media-cdn.tripadvisor.com/media/photo-s/12/9d/45/67/mcdonalds-utttoxeter.jpg>