(18) Elipsa, hyperbola, parabola

- Elipra
- monosira wsech bodii v roviné blerémaji od dwou daryich bodi


$$
\begin{aligned}
& a^{2}=b^{2}+e^{2} \\
& e=\sqrt{a^{2}-b^{2}}
\end{aligned}
$$



E,F... ohnirha
$\leftrightarrow A B . .$. Damiona
toco... verlojosi ond
e... excmbrinila - $1,1,4 D \ldots$ cortholy


$$
x \quad \frac{(x-m)^{2}}{a^{2}}+\frac{(y-m)^{2}}{b^{2}}=1
$$



$$
\frac{(x-m)^{2}}{b^{2}}+\frac{(y-m a)^{2}}{a^{2}}=1
$$

- beima vbudé T $\left.x_{0} i \eta_{0}\right]$

$$
\frac{(x-m)\left(x_{0}-m\right)}{a^{2} / b^{2}}+\frac{(y-m)\left(y_{0}-m\right)}{b^{2} / a^{2}}=-1
$$

 a coppothita jojism vebulem. Widel, bley-soviva suisás onou


- Hyperbola
- Mnvoina vséch bochi v roviné bleré majia od. dwou danyih bochi E, F roving ponstantni-dosolutni hoctuolu Mordilu voditemoshi, lo

$$
l=\sqrt{a^{2}+b^{2}} \text { ( }
$$

- Parabola
- Mroserina woech bodi v roviné, blerémají slejiman vadicemosd od drreito bodur F jobo od dané pirink $d$, blera'bodem F neprochára.
$d$
F... ahnisso
d... iriclín /fismba
o... ora puriber
p...paramebr
o

Beina: $(x-m)\left(x_{0}-m\right)=\mu(y-m)\left(y_{0}-m\right)$

$$
\begin{aligned}
& \checkmark \\
& (x-n)^{2}=-2 \mu(x-m)^{2} \\
& (y-n)^{2}=2 k(x-m) \\
& \text { heina: } \\
& \text { hirm: }(x-m)\left(x_{0}-m\right)=-p\left(y_{1}-m\right)-p\left(g_{0}-m\right)
\end{aligned}
$$

