Parabolas
Friday, October 6, 2017 1:27 PM

1. old.

$$
y=a(x-h)^{2}+k
$$

- $v+x(h, k)$


$$
x=a(y-k)^{2}+h
$$ $v t x:(h, k)$


3. $x=-4(y+1)^{2}+2$
because $a=-4$

$$
\begin{aligned}
& V \operatorname{tx}\left(25_{2}\right) \\
& \stackrel{4}{4}, \frac{-16}{10}
\end{aligned}
$$


4.

$$
\begin{aligned}
& x-3 y^{2}+6 y+7=0 \\
& x=\begin{array}{ll}
+3 y^{2}-6 y & -7 \\
13\left(y^{2}-2 y+1\right) & -3
\end{array} \\
& \begin{array}{ll}
1 & 3(y-1)^{2}-10 \\
\vdots & H_{x}(-10,1) \\
\vdots & r^{3} \int_{2}^{12}
\end{array}
\end{aligned}
$$

5. 

$$
\begin{aligned}
& 5 x= y^{2}+10 y+80 \\
& y^{2}+10 y-\underline{25}+\frac{(y+5)^{2}}{5}+\frac{55}{5} \\
& \frac{5 x^{\prime}}{5}=(-25 \\
& x= \frac{1}{5}(y+5)^{2} 11 \\
&(11,-5)
\end{aligned}
$$



