9-1 Day 2

Find the standard form of the equation of the parabola.

points: $(2,0)$ and $(4,0)$


$$
\begin{aligned}
& (x-h)^{2}=4 p(y-k) \\
& (x-3)^{2}=4 p(y-1) \\
& (2-3)^{2}=4 p(0-1) \\
& \frac{1}{-1}=-4 p \\
& -1=4 p
\end{aligned}
$$

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Ex 3) vertex: $(-2,0)$ focus: $(-1.5$, 0)


Find an equation of the tangent line and find the $x$-intercept.
If necessary,...
Ex 5) $x^{2}=4 y$ at $(4,8)$

