## Answer on Question \#45101 - Math - Analytic Geometry

Find the standard form of the equation of the parabola with a focus at $(0,2)$ and a directrix at $y=-2$.

Distance $p$ between directrix and focus is $2-(-2)=4$. Due to the fact that directrix is parallel to the axis $O x$, we can say that the standard form of a parabola's equation is

$$
x^{2}=2 p y .
$$

So, the answer is the follo9wing:

$$
x^{2}=8 y
$$

