## Monday, March 11, 2019

- Warm-up
estimated sales:
70,000-200a expenses:
\$110 to make each bike $\$ 700,000$ in operating costs
- Simplify the given equation to model bicycle sales: $P(a)=a(70,000-200 a)-700,000+110(70,000-200 a)$
- Graph this equation in the calculator \& sketch the graph to determine break even points (where no money is lost or gained) AND maximum profit available
- PBL Work



## Objectives

Content: I will apply quadratic reasoning to the PBL problem.
Social: I will work well with my group, contributing or doing my job.
Language: I will extract information from the spreadsheets and identify it with correct vocabulary to build the needed equation.

Profit Functions

$$
\begin{aligned}
& 70,000 a-200 a^{2}-700,000+7,700,000-22000^{\circ} \\
& -200 a^{2}+48000 a+7000,000 \\
& \text { - Simplify the given equation to model bicycle sales: } \\
& P(a)=a(70,000-200 a)-700,000+110(70,000-200 a) \\
& \text { - Graph this equation in the calculator \& sketch the } \\
& \text { graph to determine break even points (where no } \\
& \text { money is lost or gained) AND maximum profit available } \\
& \text { Objectives }
\end{aligned}
$$

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## Goals

- Clarify lenses
- Examine data
- Determine what else is needed
- Look at website resources
- Plan what will happen the next time you can work (Friday)


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