## Bell Work: 3-5

N-RN. 2.3
Given:

Which expression results in a rational number?
A. $L+M$
B. $M+N$
C. $N+P$
D. $\mathrm{P}+\mathrm{L}$

## Quadratic Graphs and Their Properties

Identify the vertex of each graph. Tell whether it is a minimum or a maximum.


Order each group of quadratic functions from widest to narrowest graph.

$$
\begin{array}{lr}
\text { b) } x=-3 x^{2}, y=-5 x^{2}, y=-1 x^{2} & \text { 7) } \begin{array}{rl}
y=4 x^{2}, y=-2 x^{2}, y=-6 x^{2} \\
-y=3 x^{2}, y=5 x^{2} y=1 x^{2} & y=4 x^{2}, 2 x^{2}, 6 x^{2} \\
-y=1 x^{2}, 3 x^{2}, 5 x^{2} & y=2 x^{2}, 4 x^{2}, 6 x^{2} \\
-y=-1 x^{2},-3 x^{2},-5 x^{2} & y=-2 x^{2}, 4 x^{2},-6 x^{2} \\
& \text { 9) } y=\frac{1}{6} x^{2}, y=\frac{1}{4} x^{2}, y=\frac{1}{2} x^{2} \\
y=x^{2}, y=\frac{1}{3} x^{2}, y=2 x^{2} & \frac{1}{6} x^{2}, \frac{1}{4} x^{2}, \frac{1}{2} x^{2}
\end{array} \\
y=\frac{1}{3} x^{2}, x^{2}, 2 x^{2} & y=
\end{array}
$$

