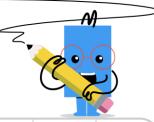


## mobius

## **Quadratics Vertex Form - Min/Max Y to Range**



| What is the range of a function with this min/max of y?  Min: 2 | $\begin{bmatrix} 1.5, -3 \end{bmatrix} \begin{bmatrix} 2, \infty \end{bmatrix}$ $\begin{bmatrix} -\infty, 1.5 \end{bmatrix} \begin{bmatrix} -3, \infty \end{bmatrix}$ |   | A B C $(-\infty, 4]$ [1.5, 4] $[-1, \infty)$   |
|---|---|---|--|
| What is the range of a function with this min/max of y?         | $\begin{bmatrix} -4, -3 \end{bmatrix} \begin{bmatrix} -1, -3 \end{bmatrix}$ $\begin{bmatrix} -\infty, -4 \end{bmatrix} \begin{bmatrix} -\infty, -3 \end{bmatrix}$     |   | $\begin{bmatrix} A \\ (-\infty, -1] \end{bmatrix} \begin{bmatrix} -1.5, -3 \end{bmatrix}$ $\begin{bmatrix} C \\ (-\infty, -3] \end{bmatrix} \begin{bmatrix} -\infty, -1.5 \end{bmatrix}$ |
| Max: -4  Max: -4  What is the range of a function with this     | A B   | Max: -1  6 What is the range of a function with this      | Å B B  |
| min/max of y?  Max: -3  | $\begin{bmatrix} -\infty, -0.5 \end{bmatrix} \begin{bmatrix} -\infty, -3 \end{bmatrix}$   | min/max of y?  Max: 4                                     | $[3, \infty)$ [-1.5, \infty) $[-1.5, \infty)$ $[-\infty, 4]$   |
| What is the range of a function with this min/max of y?         | $(-\infty, 0.5]$ $[4, \infty)$  | 8 What is the range of a function with this min/max of y? | $\begin{bmatrix} A \\ (-\infty, -2] \end{bmatrix} \begin{bmatrix} B \\ (-\infty, 3] \end{bmatrix}$   |
| Min: 4  | $\begin{bmatrix} 0.5, -2 \end{bmatrix} \begin{bmatrix} -2, \infty \end{bmatrix}$  | Max: 3  | $\begin{bmatrix} c \\ (-\infty, -1.5] \end{bmatrix} \begin{bmatrix} -1.5, -2 \end{bmatrix}$  |
|   |   |   |  |