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## Hand Graphing Part 3:

 Horizontal Stretches and Shifts4 hand graphing part 3.notebook


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|  |  |  | $\pi)$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $-\sin$ | -2x | $\left.x-\frac{\pi}{4}\right)+$ |  |  |  |  |  |  |  |  |  |  |
|  |  | - | 4) |  |  |  |  |  |  |  |  |  |  |
|  | $-\sin$ | $(-2)$ | $\left(x+\frac{\pi}{8}\right)$ | $)+5$ |  |  |  |  |  |  |  |  |  |
|  | - $\sin$ | (-2) | $\left(x+\frac{1}{8}\right)$ |  |  |  |  |  |  |  |  |  |  |
|  | mp 1 fe |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\frac{1}{8 L}$ | $=\frac{7 \pi}{16}$ | 6 L |  |  |  |  |  |  |  |  |  |  |
| Vs | 个5 |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $2 \frac{2 \pi}{2}=$ | $=\pi$ (f) | (8tio) |  |  |  |  |  |  |  |  |  |  |
|  | 2 |  | (tip) |  |  |  |  |  |  |  |  |  |  |
|  | Scall | $\pi=1$ | $=16$ hous |  |  |  |  |  |  |  |  |  |  |
|  | scall | $\frac{\pi}{16}$ |  |  |  |  | $\frac{2 \pi}{16}$ |  |  |  |  | $\frac{14 \pi}{16}$ |  |
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