

Sample task slide containing an interactive graph

The left panel contains the task questions and response fields

The text for the graph specification is copied into a text box on the right

Find Domain and Range of Square Root Functions

First, adjust the sliders to transform the graph of $y = \sqrt{x}$ into the function: $y = \sqrt{x-7} + 1$

The domain is: $x \geq 7$
The range is: $y \geq 1$
DONE BUILD

Now try other values of h and k for a more general form of the square root function:

$$y = \sqrt{x+h} + k$$

The domain is: $x \geq h$
The range is: $y \geq k$
DONE

Interactive Graph

```
function: y = sqrt(x - %h )+ %k
function: y=sqrt(x): position =300,100
slider: var=h: min=-8: max=8: initial value=1:
step=0.1
slider: var=k: min=-8: max=8: ival=1: step=0.1
window: xmin=-8: xmax=8: ymin=-8: ymax=8
```