

## 1.5 Inverse Universe - Answer Key

### A Practice Understanding Task

A1	B7	The graph of B7 (not a function) is a reflection of the graph of A1 over the $y = x$ line.
A2	B3	Both functions are lines with reciprocal slopes and intercepts that make the lines reflections over the $y = x$ line.
A3	B6	If a table of values is created based on the description in A3 the inputs and outputs would be the reverse of B6.
A4	B8	If the points from B8 are plotted on the graph of A4, they are reflections over the $y = x$ line.
A5	B2	Each point on A5 is the reverse of a point on B2. If the points on A5 are connected, the graph is a reflection of B2 over the $y = x$ line.
A6	B1	These two equations directly undo each other.
A7	B4	Each input in A7 is cubed to get the output. Each input in B4 is cube rooted to get the output, so these two functions direction undo each other.
A8	B5	The two graphs are reflections over the $y = x$ line.
A9	B10	B10 describes $f(x) = 5^x$ . If it is graphed on A9, the two graphs are reflections over the $y = x$ line.
A10	B9	A10 describes $f(x) = 3x + 5$ . B9 is a graph of $y = \frac{1}{3}(x - 5)$ , so the two functions undo each other.