Plotting Linear Graphs – Create-a-Picture

For each of the following equations, complete the table of values and plot the graph of the equation between the x-values given.

1. $y = x + 5$ $\quad\quad \{2 \le x \le 4\}$

x	2	2.5	3	3.5	4
y					

2. $y = x - 4$ $\quad\quad \{4 \le x \le 6\}$

x	4	4.5	5	5.5	6
y					

3. $y = 11 - x$ $\quad\quad \{4 \le x \le 7\}$

x	4	5	6	7
y				

4. $y = -x + 12$ $\quad\quad \{10 \le x \le 12\}$

x	10	10.5	11	11.5	12
y					

5. $y = 2x - 17$ $\quad\quad \{11 \le x \le 12\}$

x	11	11.25	11.5	11.75	12
y					

6. $y = \frac{1}{4}x + \frac{9}{4}$ $\quad\quad \{7 \le x \le 11\}$

x	7	8	9	10	11
y					

7. $y = -0.25x + 5$ $\quad\{0 \le x \le 4\}$

x	0	1	2	3	4
y					

Now add the following straight lines:

8. $x = 12$ $\quad\quad \{0 \le y \le 7\}$

9. $y = 2$ $\quad\quad \{6 \le x \le 10\}$

10. $x = 4$ $\quad\quad \{7 \le y \le 9\}$

11. $y = 7$ $\quad\quad \{0 \le x \le 2\}$

12. $x = 4$ $\quad\quad \{0 \le y \le 4\}$

13. $x = 0$ $\quad\quad \{5 \le y \le 7\}$

Finally, colour in your picture!