

# Recognise, Sketch and Produce Graphs of Linear and Quadratic Functions of 1 Variable – Sorting Activity Answers

The equations, graphs and table of values below are either linear or quadratic. Sort them into the two types of functions.

|     |   |   |   |   |    |
|-----|---|---|---|---|----|
| $x$ | 1 | 2 | 3 | 4 | 5  |
| $y$ | 2 | 4 | 6 | 8 | 10 |

**Linear Function**

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| $x$ | -2 | -1 | 0 | 1 | 2 |
| $y$ | 1  | 4  | 5 | 4 | 1 |

**Quadratic Function**

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| $x$ | -2 | -1 | 0 | 1 | 2 |
| $y$ | 12 | 7  | 4 | 3 | 4 |

**Quadratic Function**

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| $x$ | -2 | -1 | 0 | 1 | 2 |
| $y$ | 7  | 6  | 5 | 4 | 3 |

**Linear Function**

|     |   |    |    |    |    |
|-----|---|----|----|----|----|
| $x$ | 1 | 2  | 3  | 4  | 5  |
| $y$ | 7 | 11 | 17 | 25 | 35 |

**Quadratic Function**

|     |   |   |      |      |   |
|-----|---|---|------|------|---|
| $x$ | 0 | 1 | 1.41 | 1.73 | 2 |
| $y$ | 0 | 1 | 2    | 3    | 4 |

**Quadratic Function**

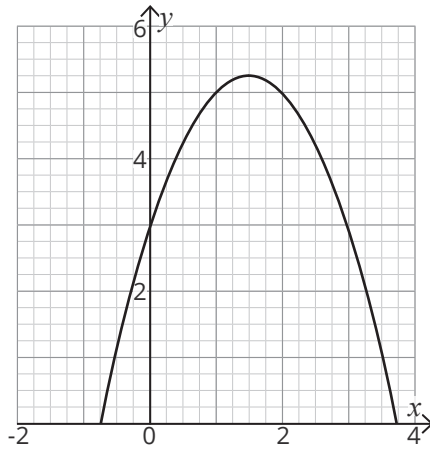
|     |    |   |    |     |     |
|-----|----|---|----|-----|-----|
| $x$ | -1 | 1 | 2  | 3   | 4   |
| $y$ | 4  | 4 | -2 | -12 | -26 |

**Quadratic Function**

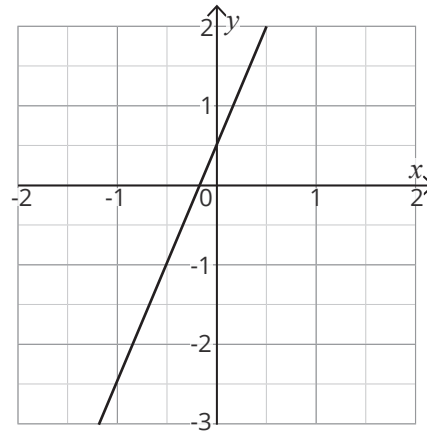
|     |   |   |   |    |    |
|-----|---|---|---|----|----|
| $x$ | 1 | 2 | 4 | 7  | 11 |
| $y$ | 2 | 4 | 8 | 14 | 22 |

**Linear Function**

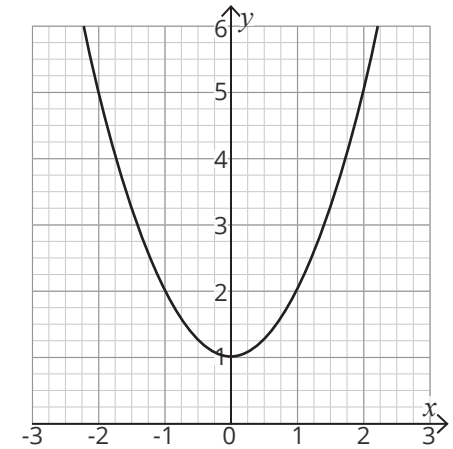
Recognise, Sketch and Produce Graphs of Linear and Quadratic Functions of 1 Variable – Sorting Activity  
**Answers**



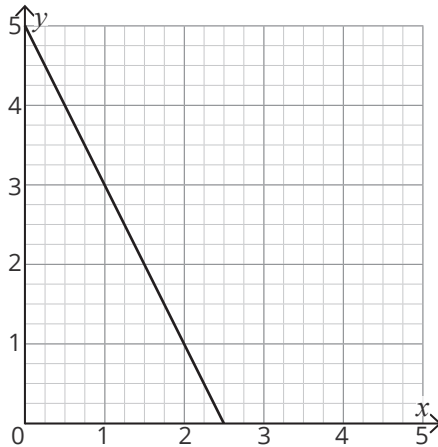
**Quadratic Function**



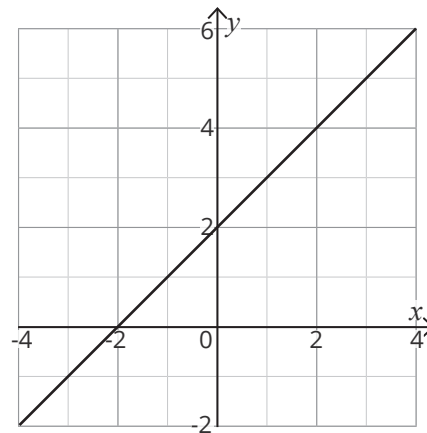
**Linear Function**



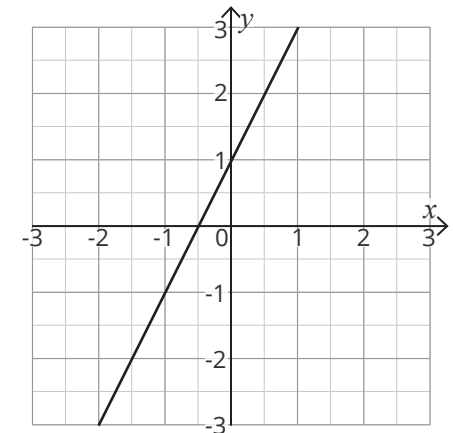
**Quadratic Function**



**Linear Function**

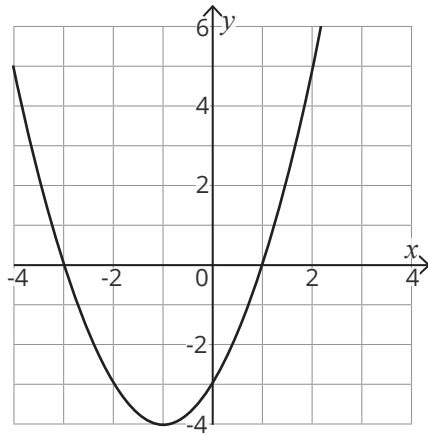


**Linear Function**

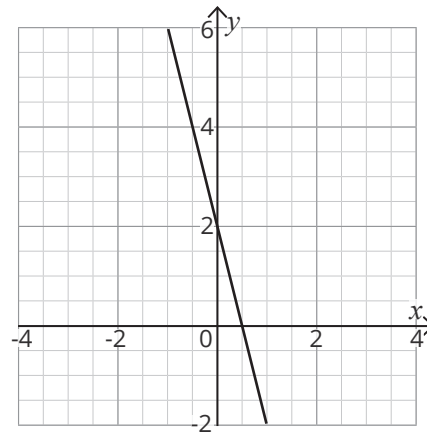


**Linear Function**

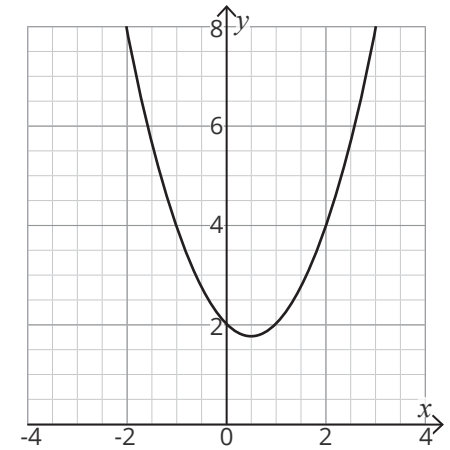
Recognise, Sketch and Produce Graphs of Linear and Quadratic Functions of 1 Variable – Sorting Activity  
**Answers**



**Quadratic Function**



**Linear Function**



**Quadratic Function**

$$y = x^2$$

**Quadratic Function**

$$y + x = -4$$

**Linear Function**

$$y = 2x^2 - 2x$$

**Quadratic Function**

$$y = \frac{1}{2}x - 3$$

**Linear Function**

$$2x + 2 = y$$

**Linear Function**

# Recognise, Sketch and Produce Graphs of Linear and Quadratic Functions of 1 Variable – Sorting Activity

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| $x$ | -2 | -1 | 0 | 1 | 2 |
| $y$ | 1  | 4  | 5 | 4 | 1 |

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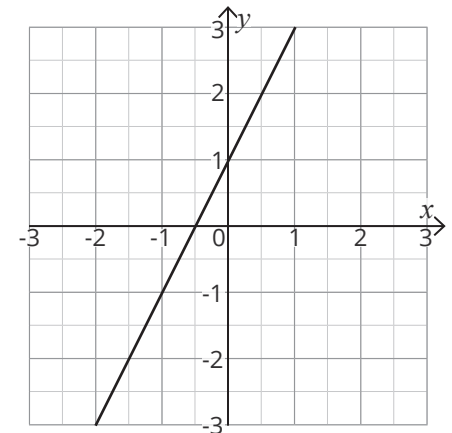
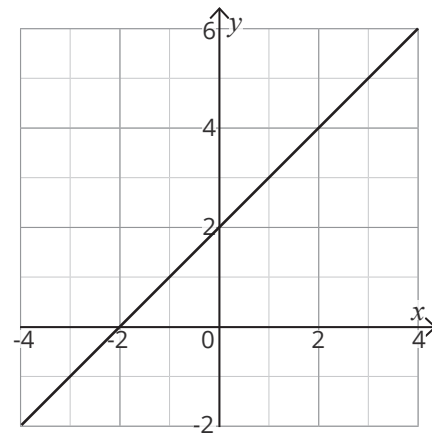
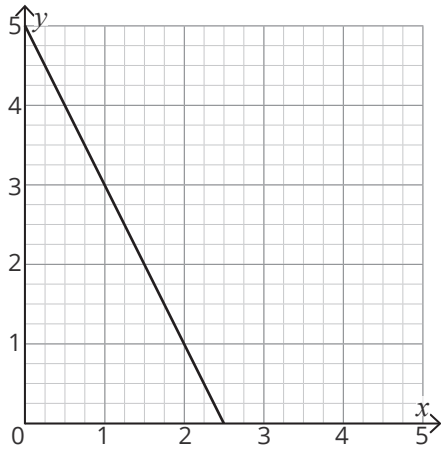
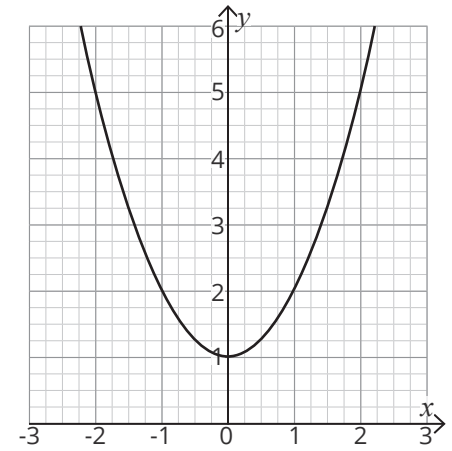
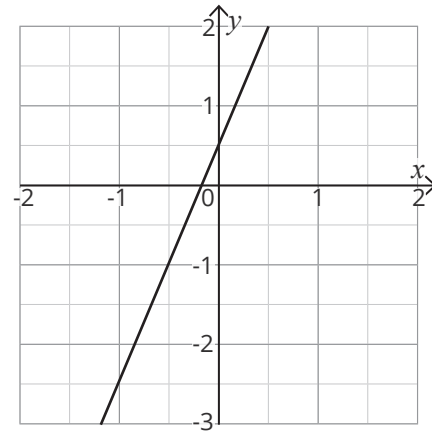
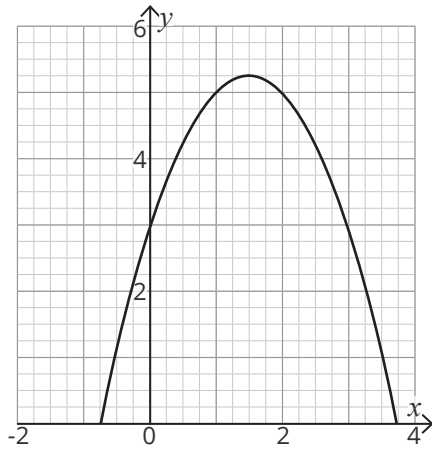
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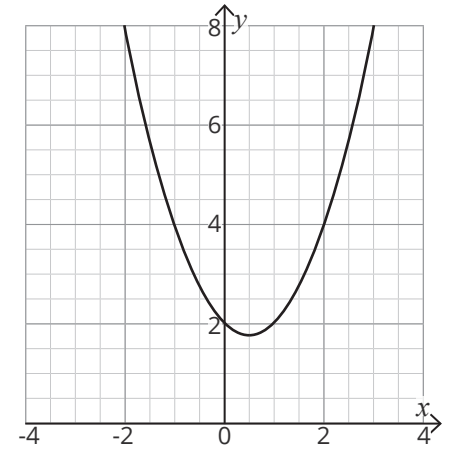
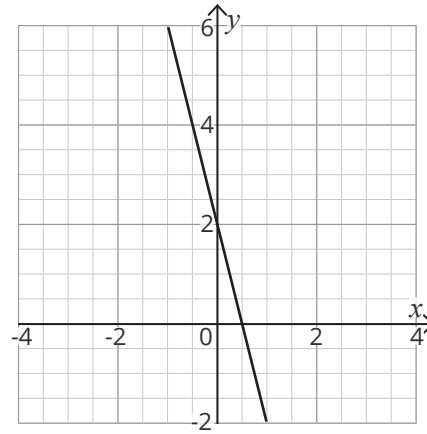
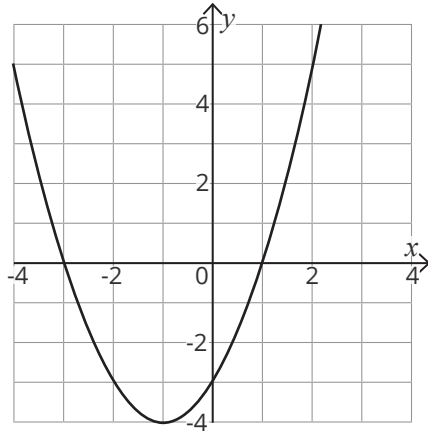
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|-----|----|---|----|-----|-----|
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Recognise, Sketch and Produce Graphs of Linear and Quadratic Functions of 1 Variable – Sorting Activity



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