

# Creating Quadratic Equations



Level 1 - Create an equation from a table of values when the y-intercept is given

Level 2 - Create an equation from a table of values when the y-intercept is not given

Level 3 - Create an equation from a table when the input values do not step up by 1

## Answers:

### Level 1

a) $y = 4x^2 - 3x + 1$	b) $y = 3x^2 - 2x - 8$
c) $y = -2x^2 - 9$	d) $y = 2x^2 - 3x$
e) $y = 4x^2 + 2x - 8$	f) $y = x^2 - 3x - 4$
g) $y = x^2 + 1$	h) $y = -4x^2 - x - 9$

### Level 2

a) $y = 4x^2 - 9$	b) $y = -2x^2 - x - 10$	c) $y = 2x^2 - 3x$
d) $y = -2x^2 + 2x - 8$	e) $y = x^2 - 5x - 1$	f) $y = -2x^2 - 9$

### Level 3

a) $y = 3x^2 + x - 5$	b) $y = -2x^2 - x - 2$	c) $y = x^2 + 1$
d) $y = 2x^2 - x + 3$	e) $y = 2x^2 - 2x + 8$	f) $y = \frac{1}{2}x^2 + x - \frac{3}{2}$