



Math worksheet on 'Polynomials - Complete the Square (Level 1)'. Part of a broader unit on 'Polynomials and Quadratics - Advanced'

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1 Which constant value makes this polynomial a perfect square?

$$z^2 + 16z + ?$$

a	b	c	d	e	f
51	64	25	98	99	81

2 Which constant value makes this polynomial a perfect square?

$$x^2 + 8x + ?$$

a	b	c	d	e	f
39	16	4	2	40	17

3 Which constant value makes this polynomial a perfect square?

$$b^2 + 0b + ?$$

a	b	c	d	e	f
12	0	1	-5	-3	11

4 Which constant value makes this polynomial a perfect square?

$$r^2 - 2r + ?$$

a	b	c	d	e	f
8	4	9	12	11	1

5 Which constant value makes this polynomial a perfect square?

$$d^2 + 18d + ?$$

a	b	c	d	e	f
60	64	81	36	52	84

6 Which constant value makes this polynomial a perfect square?

$$z^2 - 2z + ?$$

a	b	c	d	e	f
9	6	-4	12	1	16

7 Which constant value makes this polynomial a perfect square?

$$b^2 + 8b + ?$$

a	b	c	d	e	f
25	8	16	1	4	24