

Function Table

ES1

Complete the function tables.

1)

z	$z^2(z+3)$
-2	$(-2)^2(-2+3) = 4 \cdot 1 = 4$
-1	$(-1)^2(-1+3) = 1 \cdot 2 = 2$
-3	$(-3)^2(-3+3) = 9 \cdot 0 = 0$
1	$(1)^2(1+3) = 1 \cdot 4 = 4$
2	$(2)^2(2+3) = 4 \cdot 5 = 20$

2)

v	$v^2 - 10$
5	$5^2 - 10 = 25 - 10 = 15$
-8	$-8^2 - 10 = 64 - 10 = 54$
6	$6^2 - 10 = 36 - 10 = 26$
-10	$-10^2 - 10 = 100 - 10 = 90$
4	$4^2 - 10 = 16 - 10 = 6$

3)

c	$\frac{c}{4} - 2$
24	$\frac{24}{4} - 2 = 6 - 2 = 4$
36	$\frac{36}{4} - 2 = 9 - 2 = 7$
12	$\frac{12}{4} - 2 = 3 - 2 = 1$
80	$\frac{80}{4} - 2 = 20 - 2 = 18$
8	$\frac{8}{4} - 2 = 2 - 2 = 0$

4)

q	$2q + 1$
3	$2(3) + 1 = 6 + 1 = 7$
7	$2(7) + 1 = 14 + 1 = 15$
2	$2(2) + 1 = 4 + 1 = 5$
10	$2(10) + 1 = 20 + 1 = 21$
1	$2(1) + 1 = 2 + 1 = 3$

5)

b	$(b+5)(b+2)$
4	$(4+5)(4+2) = 9 \cdot 6 = 54$
-2	$(-2+5)(-2+2) = 3 \cdot 0 = 0$
1	$(1+5)(1+2) = 6 \cdot 3 = 18$
5	$(5+5)(5+2) = 10 \cdot 7 = 70$

6)

n	$\frac{16}{n+1}$
7	$\frac{16}{7+1} = \frac{16}{8} = 2$
0	$\frac{16}{0+1} = \frac{16}{1} = 16$
3	$\frac{16}{3+1} = \frac{16}{4} = 4$
15	$\frac{16}{15+1} = \frac{16}{16} = 1$