

### **SM3 4.6 odd answers**

1. Quadratic, G, translate right 3 and up 5, vertical stretch of 2
3. Absolute value, J, translate left 2 and down 4
5. absolute value, B, translate right 4, reflect over y-axis, vertical stretch of 2
7. quadratic, L, translate right 3 and up 5, reflect over x-axis, vertical shrink of  $\frac{1}{2}$
9. square root, K, translate left 7 and up 2
11. absolute value, F, translate right 4, reflect over x-axis
13. cubic, J, translate right 3 and up 5, vertical stretch of 4
15. linear, E, translate up 3, vertical stretch of 2
17. cube root, B, translate right 7 and up 2, reflect over x-axis
19. linear, F, reflect over x-axis
21. cubic, I, translate left 5 and down 3
23. linear, L, translate down 3
25.  $g(x) = -|x + 5| + 2$
27.  $g(x) = (-x)^3 + 1$
29.  $g(x) = \sqrt{x + 2} + 1$ , translate left 2, up 1
31.  $g(x) = |x + 2| - 1$ , translate left 2, down 1
33.  $g(x) = x + 4$ , translate up 4 or  $g(x) = (x - 2)$ , translate left 2