

### 1.2 Enrichment and Extension

1.  $g(x) = 2x - 8; x = 4$
2.  $g(x) = -2x - 1; x = -\frac{1}{2}$
3.  $g(x) = 6x - 6; x = 1$
4.  $g(x) = 6x + 4; x = -\frac{2}{3}$
5.  $g(x) = 4x - 14; x = \frac{7}{2}$
6.  $g(x) = -2x - 6; x = -3$
7.  $g(x) = |x - 1| - 2; x = 3, x = -1$
8.  $g(x) = |x + 3| + 1$ ; no solution, does not intersect  $x$ -axis
9.  $g(x) = -|x + 5|; x = -5$
10.  $g(x) = 2|x + 1| - 6; x = 2, x = -4$
11.  $g(x) = -|4x - 38|; x = \frac{19}{2}$
12.  $g(x) = -\frac{1}{2}|x - 3| + 2; x = 7, -1$

### 1.2 Puzzle time

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