

## Answers

- Q1** a)  $x = 0, x = 2$                       b)  $a = 0, a = -3$                       c)  $t = -5, t = 4$
- Q2** a)  $x = 0, x = 4$                       b)  $x = 0, x = -5$                       c)  $x = 0, x = \frac{1}{2}$
- Q3** a)  $x = -5, x = 5$                       b)  $x = -7, x = 7$                       c)  $x = -3, x = 3$
- Q4** a)  $x = 1, x = 5$                       b)  $x = 2, x = 3$                       c)  $z = 3, z = 4$   
d)  $x = -1, x = 4$                       e)  $c = -4, c = 2$                       f)  $x = -4, x = 9$   
g)  $n = 3$                       h)  $x = -8, x = -2$                       i)  $x = 4, x = 6$
- Q5** a)  $x = -4, x = \frac{1}{2}$                       b)  $a = -\frac{2}{3}, a = 1$                       c)  $x = -\frac{1}{4}, x = 3$   
d)  $x = -\frac{1}{2}, x = \frac{3}{2}$                       e)  $x = \frac{2}{3}, x = 9$                       f)  $x = -\frac{3}{2}, x = \frac{2}{3}$   
g)  $x = -8, x = \frac{2}{5}$                       h)  $x = -\frac{3}{2}, x = \frac{5}{4}$                       i)  $x = \frac{3}{8}, x = \frac{8}{3}$
- Q6** a)  $x = -2, x = 2$                       b)  $x = 0$                       c)  $x = -4, x = 4$   
d)  $r = 0, r = 3$                       e)  $x = -3, x = -1$                       f)  $t = 6, t = 10$   
g)  $p = -4, p = 3$                       h)  $x = 2, x = 3$                       i)  $x = -2, x = 3$
- Q7** a)  $x \approx -0.1, x \approx 7.1$                       b)  $x \approx -0.8, x \approx 1.3$                       c)  $n \approx 0.3, n \approx 2.4$   
d)  $x \approx -1.4, x \approx 1.9$                       e)  $a \approx -1.8, a \approx 2.8$                       f)  $x \approx -1.9, x \approx 0.3$   
g)  $x \approx -7.3, x \approx 0.3$                       h)  $x \approx -1.6, x \approx 1.9$                       i)  $x \approx -0.6, x \approx 0.4$