N5 Maths: Quadratic Equations

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)** $x \approx -0.6,\ x \approx 0.4$

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