Samples **Quadratic equations SOLUTIONS**

1. $(-3+3x)(1-8x)=0$, so

$$\begin{aligned} -3+3x &= 0 \\ 3x &= 3 \\ x &= \frac{3}{3} \\ x &= 1 \end{aligned} \qquad \textit{or} \qquad \begin{aligned} 1-8x &= 0 \\ -8x &= -1 \\ x &= \frac{1}{8} \end{aligned}$$

2. $(-6-10z)(-5+9z)=0$, so

$$\begin{aligned} -6-10z &= 0 \\ -10z &= 6 \\ z &= \frac{6}{-10} \\ z &= -\frac{3}{5} \end{aligned} \qquad \textit{or} \qquad \begin{aligned} -5+9z &= 0 \\ 9z &= 5 \\ z &= \frac{5}{9} \end{aligned}$$

3. $(-9z-4)^5=0$, so $-9z-4=0$, so $-9z=4$, so $z=-\frac{4}{9}$