

# EQUATIONS: Exponential: Quadratic Form

 **2028** Watch video and complete examples

Lesson Notes and Examples:

**Example 1**

$$2^{2x} + 7 \cdot 2^x = 8$$

**Example 2**

$$2^{2x+3} + 10 \cdot 2^x = 3$$

Solve:

1)  $2^{2x} - 6 \cdot 2^x = 16$

2)  $3^{2x+1} - 4 \cdot 3^x = -1$

 Mark work and do corrections. [1-2]

3)  $9^x - 10 \cdot 3^x + 9 = 0$

4)  $2^{2x+1} = 3 - 5 \cdot 2^x$

 Mark work and do corrections. [3-4]

5)  $3^{2x} - 4 \cdot 3^x + 3 = 0$

6)  $3^{2x+2} - 10 \cdot 3^x + 1 = 0$

 Mark work and do corrections. [5-6]

7)  $3^{2x} + 5 \cdot 3^x - 6 = 0$

8)  $3^{2x+1} - 28 \cdot 3^x = -9$

 Mark work and do corrections. [7-8]