

Year 10 Set 3

Websites

<https://www.stcuthbertsmaths.com/>

<https://corbettmaths.com/contents/>

Week beginning 11th May

Topic – Solving Quadratic Equations

Time 2hrs

St Cuthbert's Maths Video A34.

Corbett Maths Video 266

Corbett Maths Textbook exercise 266. Q2. Complete all questions in Q2

Topic Solving Quadratic Equations – Problem solve

Time 2hrs

Corbett Maths Textbook exercise 266. Apply questions at the back.

You need to create these quadratic equations and make them look like the above questions. Here is an example of Q1 in apply...

Question 1: Alex is w years old.
His sister Claudia is three years younger than Alex.
The product of their ages is 180.

- (a) Set up an equation to represent this information.
(b) Solve your equation from (a) to find Alex's age.

a) $w(w-3) = 180$

$$w^2 - 3w = 180$$

$$w^2 - 3w - 180 = 0$$

$$\begin{aligned} b = \\ w^2 - 3w - 180 &= 0 \\ (w - 15)(w + 12) &= 0 \\ w &= 15 \end{aligned}$$

can't be this $\rightarrow w = -12$
 $\rightarrow w = 15 = \text{Alex}$