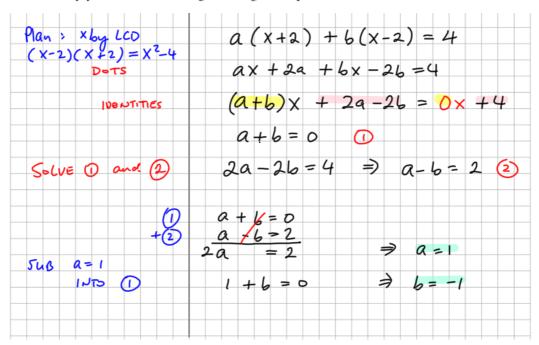
14. If
$$\frac{a}{x-2} + \frac{b}{x+2} = \frac{4}{(x-2)(x+2)}$$
 for all values of x,

using algebraic identities, write down two equations in terms of a and b only. Hence solve for a and b.

Verify your answers using the original equation.



18. A student studied a car rolling down an inclined plane and took measurements of its speed at two different times.

After 7 seconds, it had a speed of 2 m/sec and after 13 seconds, the speed increased to 5 m/sec.

Using the equation v = u + at, where v is the speed and t is the time, write down two linear equations in u and a.

Solve these equations to find values for u and a.

