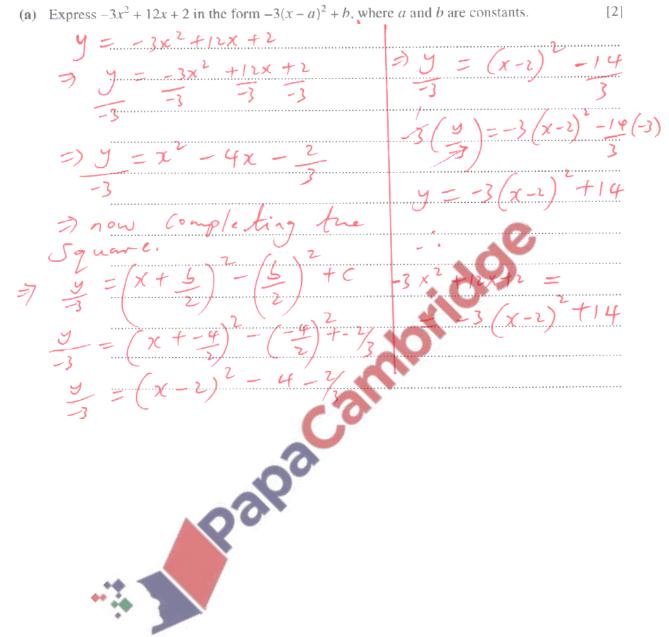
Quadratics - 2021 AS Nov/June

1. Nov/2021/Paper_9709/11/No.8(a)

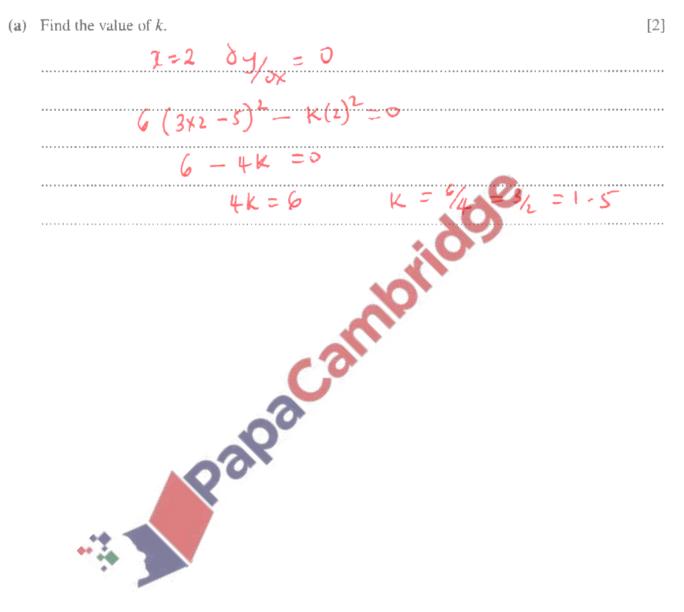


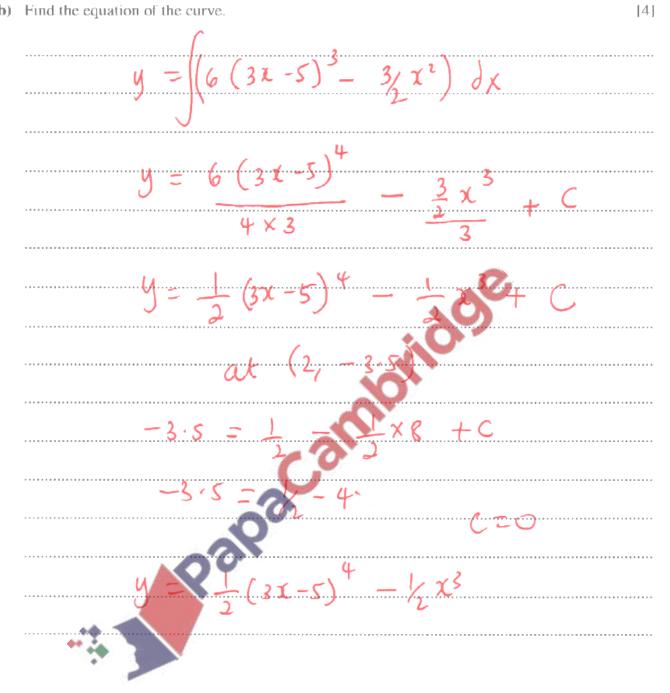
2. Nov/2021/Paper_9709/13/No.3(a)

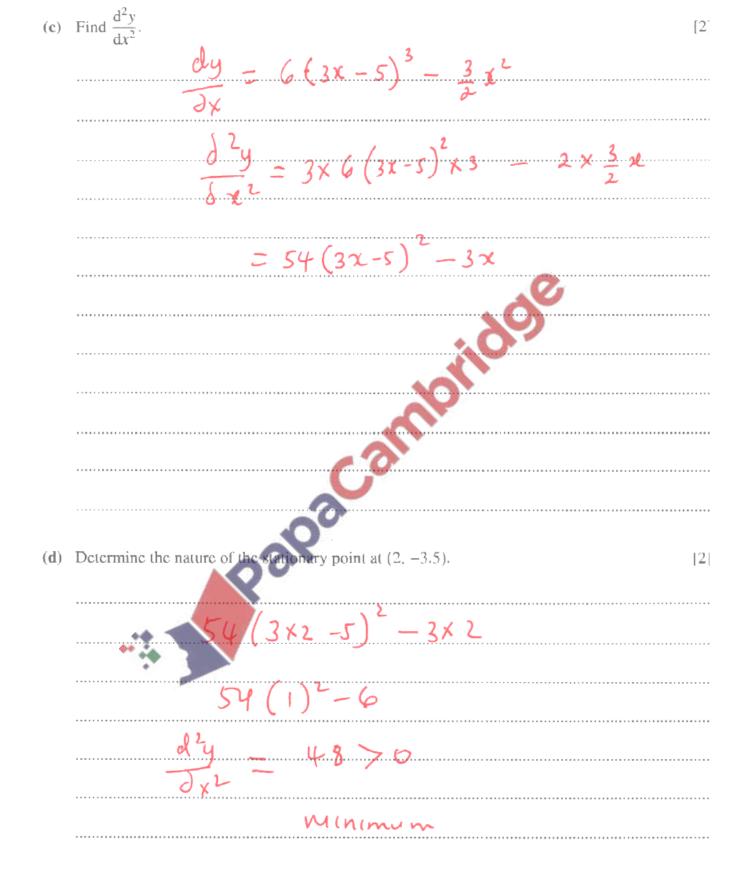
(a) Express $5y^2 - 30y + 50$ in the form $5(y + a)^2 + b_a$, where a and b are constants. [2] = 5 y2 - 30 y + 50 +(1×5) 304+5 6y + -52 ete (omp) Now +0 5 5, 304 10 Papacanto 110 t martin

3. June/2021/Paper_9709/12/No.1

The gradient of a curve is given by $\frac{dy}{dx} = 6(3x-5)^3 - kx^2$, where k is a constant. The curve has a stationary point at (2, -3.5).







4. March/2021/Paper_9709/12/No.2

By using a suitable substitution, solve the equation

$$(2x-3)^2 - \frac{4}{(2x-3)^2} - 3 = 0.$$
 [4]

