

Quadratics – 2021 AS

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

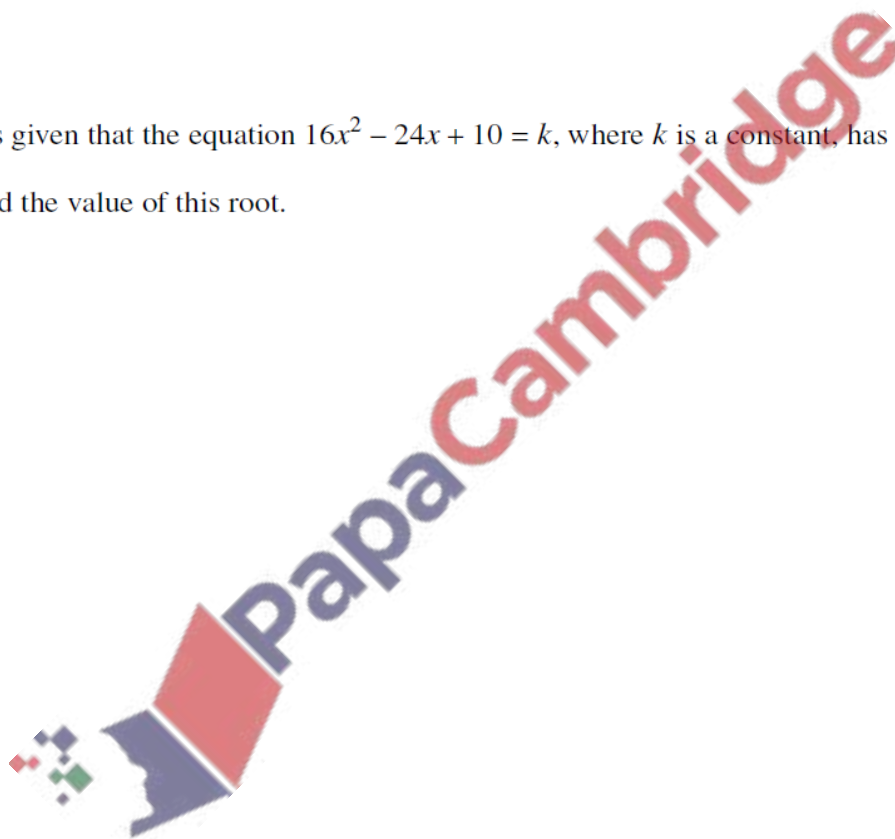
(a) Express $16x^2 - 24x + 10$ in the form $(4x + a)^2 + b$.

[2]

(b) It is given that the equation $16x^2 - 24x + 10 = k$, where k is a constant, has exactly one root.

Find the value of this root.

[2]



2. 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]

