9 (a) Factorise $x^2 - x - 42$

.....

(2)

(b) Solve the inequality $3x + 15 < 8x + 3$

Show clear algebraic working.

.....

(3)

(Total for Question 9 is 5 marks)

10 Given that $150^x = 1$

(a) write down the value of x.

$x =$.....

(1)

Given that $3^{-8} \div 3^{-6} = 3^n$

(b) find the value of n.

$n =$.....

(1)

(Total for Question 10 is 2 marks)

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