

- 18 Amin is attempting to solve the following equation.

$$(x + 1)(x + 4) = (x - 2)(x - 3)$$

His **incorrect** solution is shown below.

$$(x + 1)(x + 4) = (x - 2)(x - 3)$$

Step 1  $x^2 + 4x + x + 4 = x^2 - 3x - 2x + 6$

Step 2  $x^2 + 5x + 4 = x^2 - x + 6$

Step 3  $5x + 4 = -x + 6$

Step 4  $6x + 4 = 6$

Step 5  $6x = 2$

Step 6  $x = \frac{1}{3}$

- (a) Identify the step in which Amin made his first error and explain why this step is incorrect.

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..... [2]

- (b) Write out a correct solution to the equation.

[2]