Factorising Quadratics with a coeff

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1) Factorising Quadratics with a coefficient greater than 1: Easier

1) Solve $(4x + 2)(x - 1) = 0$

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(2 Marks)

2) Solve $3x^2 + 7x + 2 = 0$

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(2 Marks)

3) Solve $2a^2 + 7a + 5 = 0$

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(2 Marks)

4) Solve $2x^2 + 5x - 3 = 0$

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(2 Marks)

5) Solve $6x^2 - x - 15 = 0$

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(2 Marks)

6) Solve, by factorising, the equation $8x^2 - 30x - 27 = 0$

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(2 Marks)
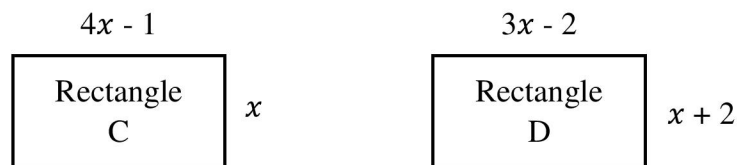
7) Simplify

$$\frac{2x^2 - 5x + 3}{2x^2 - x - 3}$$

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(2 Marks)

8) Simplify

$$\frac{5x^2 + x - 6}{5x^2 - 9x - 18}$$

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(2 Marks)

9) The two rectangles have the same area

4x - 1

Rectangle C

x

3x - 2

Rectangle D

x + 2

a) Write an equation showing this.

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b) Solve the equation. These are two possible solutions for the areas of these rectangles. Find them both.

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(3 Marks)