**1** The curve $C$ has equation $y = 3x^2 - 12x + 8$

(a) Find $\dfrac{dy}{dx}$    (b) Find the coordinates of the point on $C$ where the gradient of the curve is 18

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**Answer**

(5)

**2** Find an equation of the line that is parallel to the line $y = 4 - 2x$ and passes through the point (3, 7)

**Answer**

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(3)

**3** Solve the equation $\dfrac{6}{x-2} - \dfrac{6}{x+1} = 1$    Show clear algebraic working.

**Answer**

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(5)