```
6 (a) Find \int \left(6x^2 - \frac{5}{\sqrt{x}}\right) dx
                                                                                                                          [3 marks]
6 (b)
               The gradient of a curve is given by
                                                                  \frac{\mathrm{d}y}{\mathrm{d}x} = 6x^2 - \frac{5}{\sqrt{x}}
               The curve passes through the point (4, 90).
               Find the equation of the curve.
                                                                                                                          [2 marks]
```