13C Finding C

1. The curve X with equation y = f(x) passes through the point (2,15). Given that:

$$f(x) = 5x^2 + 3x$$

Find the equation of X.

1. The curve X with equation y = f(x) passes through the point (4,5). Given that:
$$f'(x) = \frac{x^2 - 2}{\sqrt{x}}$$
   Find the equation of X.