**13C Finding C**

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

$$f\left(x\right)=5x^{2}+3x$$

Find the equation of X.

1. The curve X with equation y = f(x) passes through the point (4,5). Given that:

$$f^{'}\left(x\right)= \frac{x^{2}-2}{\sqrt{x}}$$

Find the equation of X.