Name: _____ 5-a-day Core 1

3rd Dec

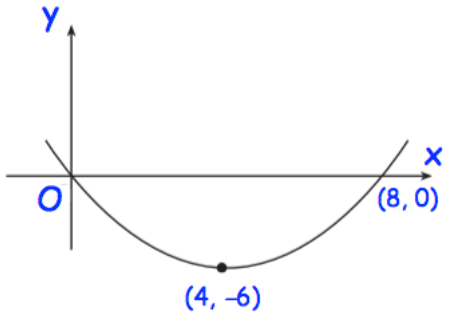
Corbettmaths

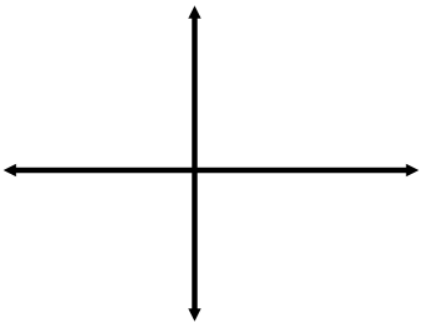
$f(x) = 3x^2 + x - 2$

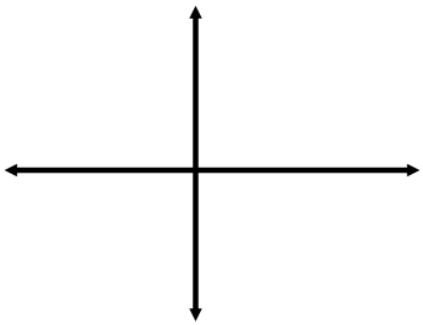
Find the value of the discriminant of f(x)

Shown is y = f(x)

Sketch
(a) 2f(x)
(b) f(2x)







Express $3x^2 + 18x + 1$
in the form $a(x + b)^2 + c$

A curve with equation y = f(x)
passes through the point (9, 16)

Given that

$$f'(x) = \frac{1}{2}x^3 + 6x^{-\frac{1}{2}} + 1$$

Find f(x)