
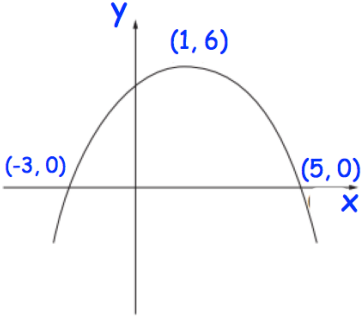


| 1st March   |   |
|---|---|
| Solve $3x^2 - 7x + 1 \geq 0$  | <br>Corbettmaths |
| If $y = 8x + 2x^3$<br><br>Find<br>$\frac{dy}{dx}$   |   |
| Find the coordinates on $y = 8x + 2x^3$ where the gradient is 32.   |   |
| Shown is the function $y = f(x)$<br>The maximum point is $(1, 6)$<br><br>The maximum point of $y = f(x) + a$<br>is on the x-axis.<br><br>Find $a$ .         |                 |
| The curve C has equation $y = f(x)$ ,<br>$x \neq 0$ , and the point A $(1, 9)$ lies on C.<br>Given<br>$f'(x) = 3x^2 + 1 - \frac{2}{x^3}$<br><br>Find $f(x)$ |   |