

Final Exam Calculus Number 6c

To get the second derivative you just take the first derivative (part b) or

$$f'(x) = 4x^3 - 4x = 4x(x^2 - 1)$$

And then take the derivative again. This yields

$$f''(x) = 12x^2 - 4 = 4(x^2 - 1)$$

NOTE – the book has an error!!!

The table below the answer showing where concave up or down is still correct.