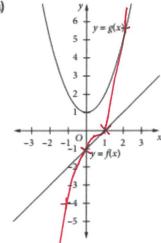
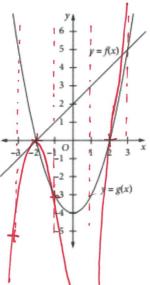
GRAPHING POLYNOMIALS BY MULTIPLYING ORDINATES

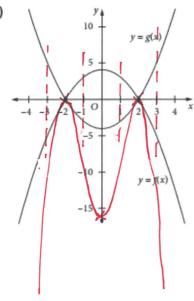
1 The graphs of y = f(x) and y = g(x) are shown. By drawing vertical lines and multiplying ordinates, draw the graph of y = f(x) g(x). Comment on the new curve.

(a)



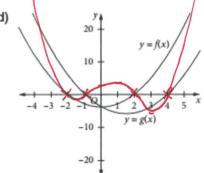


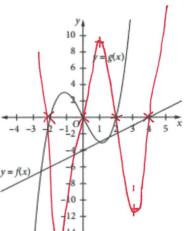
(c)



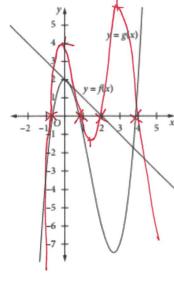
cubic (as it's the product of a quadratic and a linear function)

quartic function.





(f)



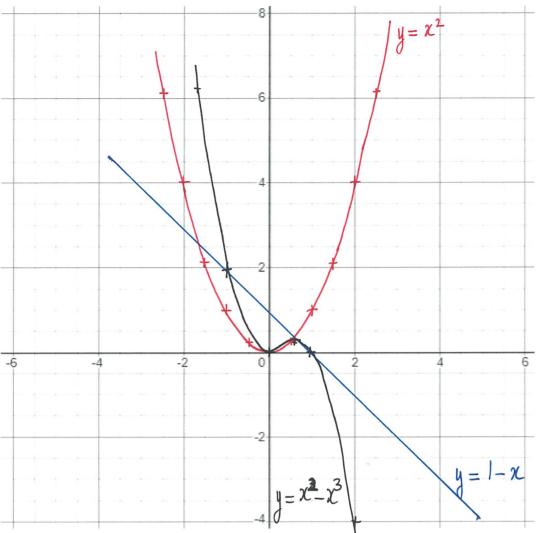
quartic function

quartic function

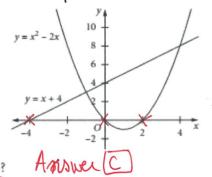
quartic function

GRAPHING POLYNOMIALS BY MULTIPLYING ORDINATES

2 On the same diagram, sketch the graphs of $y = x^2$ and y = 1 - x. Use these graphs to sketch $y = x^2 - x^3 = \chi^2 \left((-\chi) \right)$



5 The graphs of y = x + 4 and $y = x^2 - 2x$ are shown.



Which diagram represents the graph of $y = (x + 4)(x^2 - 2x)$?

