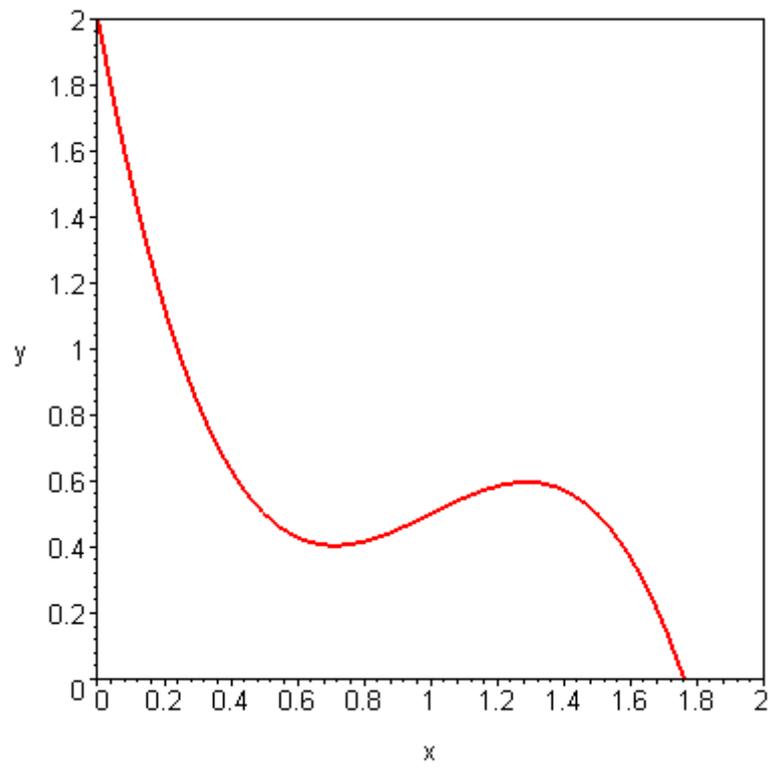
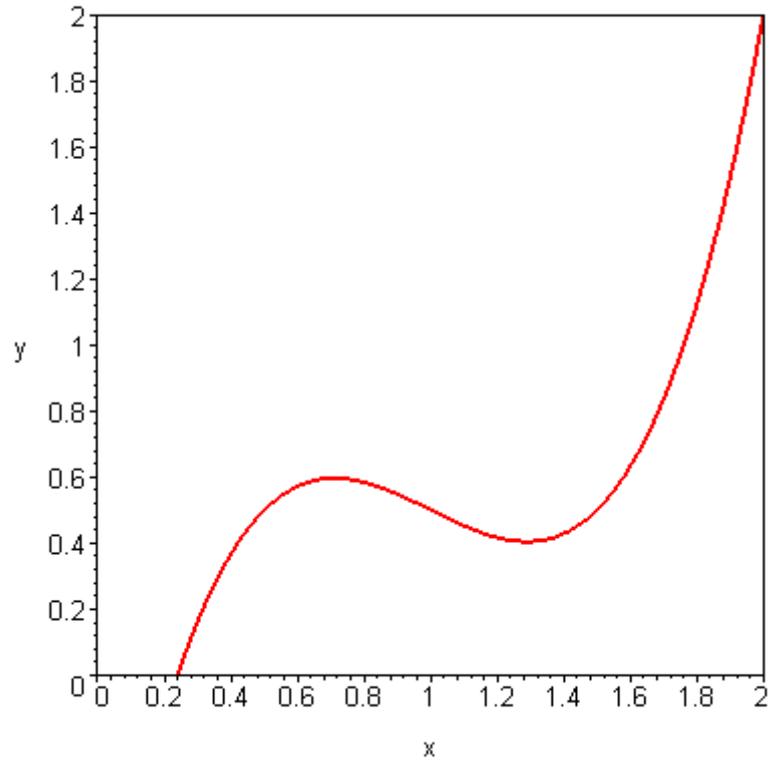
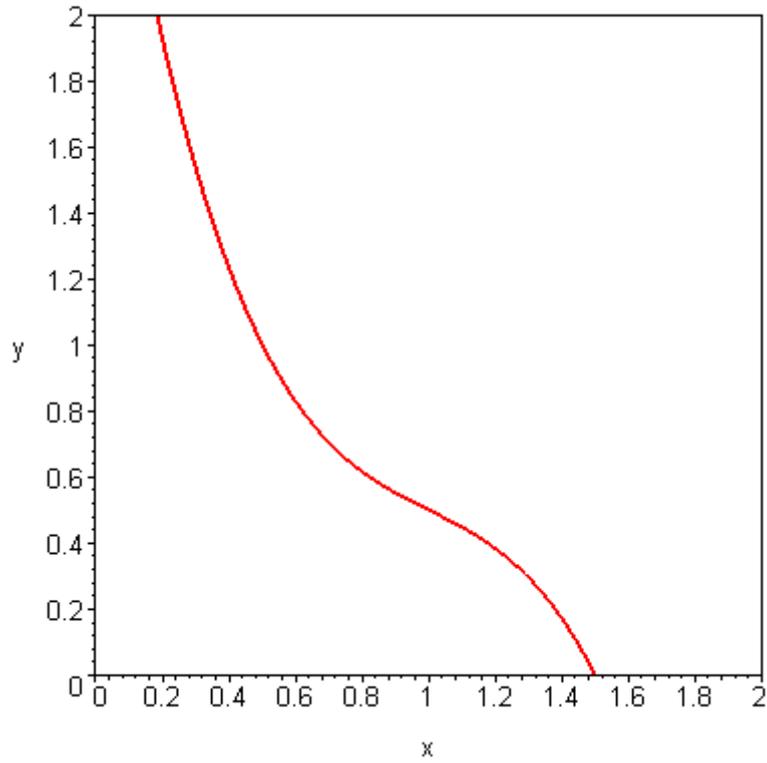


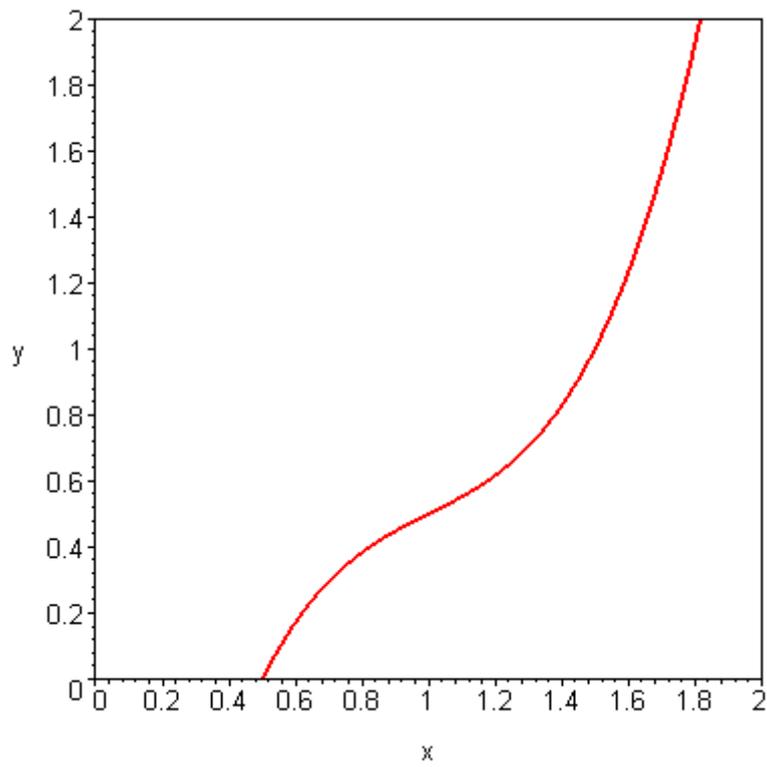
三次多項式函數的圖形

1. 令 $f(x)$ 為三次多項式函數，以下敘述何者錯誤？
 - (1) $f(x)$ 必有極大或極小值
 - (2) 如果 $f(x)$ 有極大值，就一定也有極小值
 - (3) $f(x)$ 必有一個實根
 - (4) $y = f(x)$ 的圖形必對稱於某一點
2. 函數 $f(x) = 2x^3 - 3x^2 + x - 1$ 的圖形對稱於以下哪一點？
 - (1) $(\frac{1}{2}, 1)$
 - (2) $(\frac{1}{2}, -1)$
 - (3) $(-\frac{1}{2}, -1)$
 - (4) $(-\frac{1}{2}, 1)$
3. 函數 $f(x) = 2x^3 + 3x + 1$ 的圖形對稱於以下哪一點？
 - (1) $(-\frac{1}{2}, 1)$
 - (2) $(-\frac{1}{2}, -1)$
 - (3) $(0, 1)$
 - (4) $(0, -1)$
4. 以下何者為 $f(x) = 2x^3 - 6x^2 + \frac{11}{2}x - 1$ 的函數圖形？



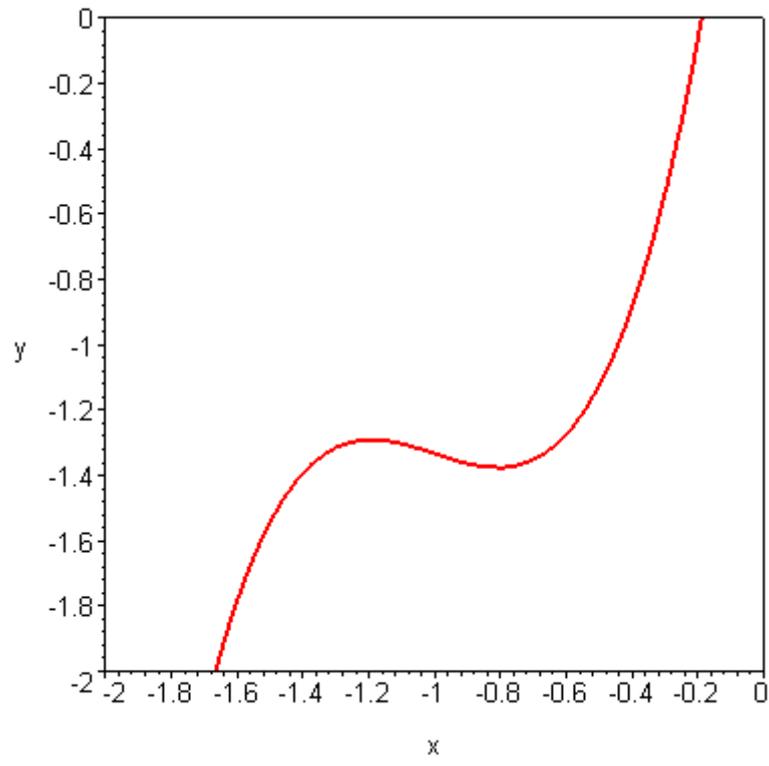


(3)

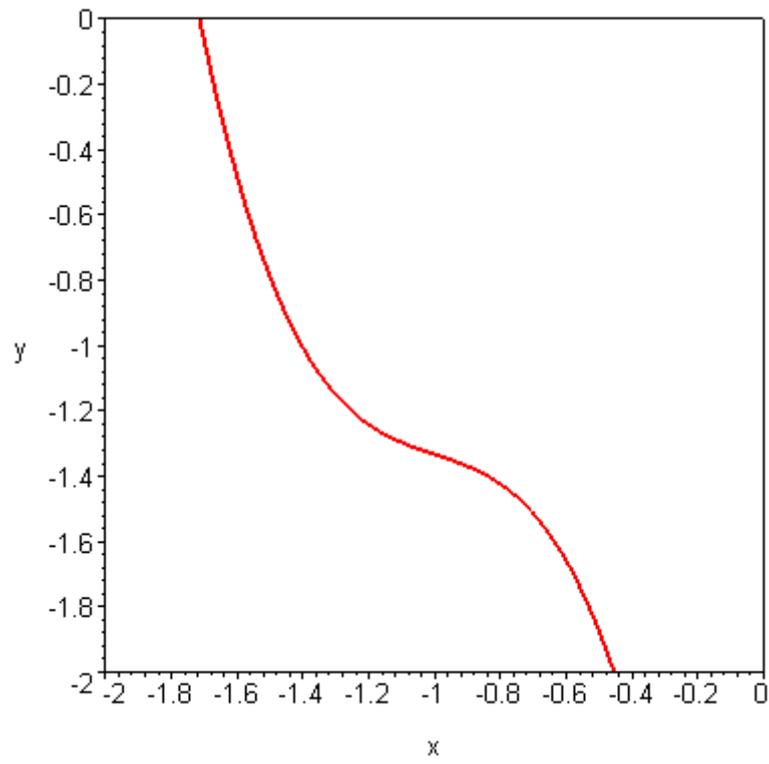


(4)

5. 以下何者為 $f(x) = 3x^3 + 9x^2 + \frac{28}{3}x + 2$ 的函數圖形？



(1)



(2)

