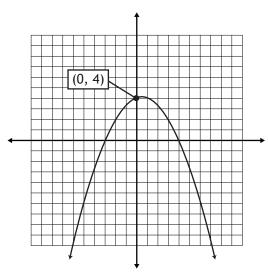


Example 8

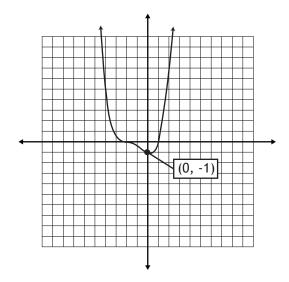
Determine the polynomial function corresponding to each graph. You may leave your answer in factored form.

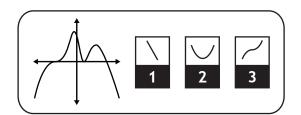
Finding a Polynomial From its Graph

a)



b)



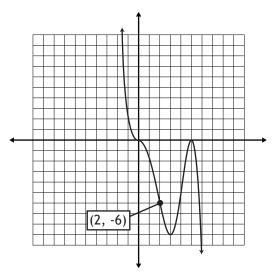


Example 9

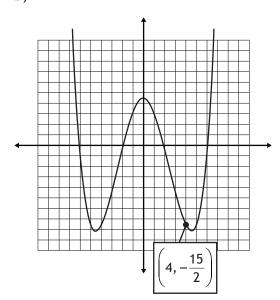
Determine the polynomial function corresponding to each graph. You may leave your answer in factored form.

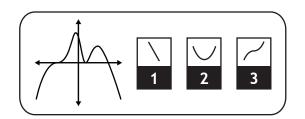
Finding a Polynomial From its Graph

a)



b)



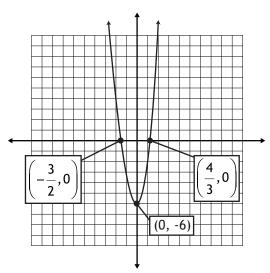


Example 10

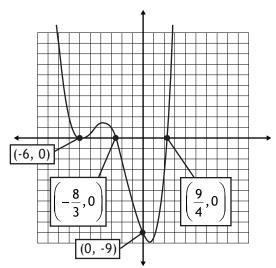
Determine the polynomial function corresponding to each graph. You may leave your answer in factored form.

Finding a Polynomial From its Graph

a)



b)



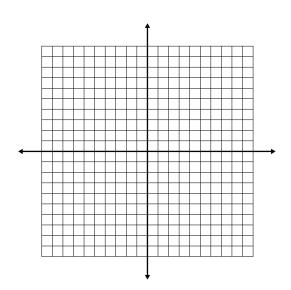
Example 12

Given the characteristics of a polynomial function, draw the graph and derive the actual function.

Graph and Write the Polynomial

a) Characteristics of P(x):

x-intercepts: (-1, 0) and (3, 0) sign of leading coefficient: (+) polynomial degree: 4 relative maximum at (1, 8)



b) Characteristics of P(x):

x-intercepts: (-3, 0), (1, 0), and (4, 0) sign of leading coefficient: (-)

polynomial degree: 3

y-intercept at: $\left(0, -\frac{3}{2}\right)$

