## Polynomial, Radical, and Rational Functions LESSON ONE - Polynomial Functions Lesson Notes


a)

b)
 factored form.

Finding a Polynomial From its Graph to each graph. You may leave your answer in


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a)

b)


Finding a Polynomial From its Graph
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a)

b)


Finding a Polynomial From its Graph
 to each graph. You may leave your answer in factored form.
Determine the polynomial function corresponding

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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 $\mathrm{P}(\mathrm{x})$ :
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: $\left(0,-\frac{3}{2}\right)$


