

NAME: _____

DATE: _____

Factor each function completely, find the function's zeros, and sketch a graph of the function.

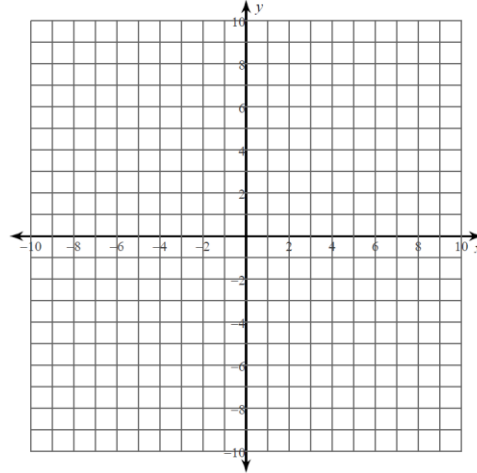
1. $f(x) = 3x^3 - 33x^2 + 90x$

$f(x) = \underline{\hspace{1cm}}(\underline{\hspace{1cm}} - \underline{\hspace{1cm}} + \underline{\hspace{1cm}})$

$f(x) = \underline{\hspace{1cm}}(\underline{\hspace{1cm}} - \underline{\hspace{1cm}})(\underline{\hspace{1cm}} - \underline{\hspace{1cm}})$

zeros: , ,

SKETCH GRAPH ----->



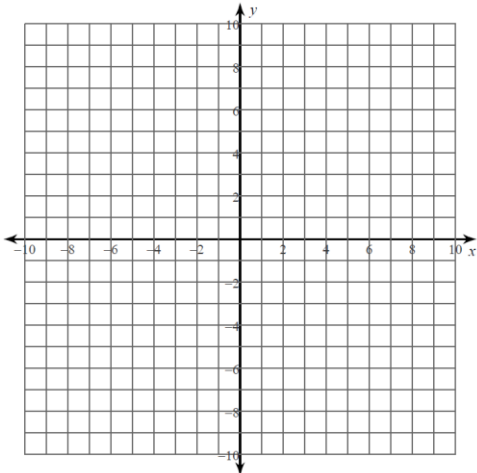
2. $g(x) = 2x^2 - 12x - 54$

$g(x) = \underline{\hspace{1cm}}(\underline{\hspace{1cm}} - \underline{\hspace{1cm}} - \underline{\hspace{1cm}})$

$g(x) = \underline{\hspace{1cm}}(\underline{\hspace{1cm}} + \underline{\hspace{1cm}})(\underline{\hspace{1cm}} - \underline{\hspace{1cm}})$

zeros: , ,

SKETCH GRAPH ----->



3. $h(x) = 5x^3 - 25x^2 + 20x$

$h(x) = \underline{\hspace{1cm}}(\underline{\hspace{1cm}} - \underline{\hspace{1cm}} + \underline{\hspace{1cm}})$

$h(x) = \underline{\hspace{1cm}}(\underline{\hspace{1cm}} - \underline{\hspace{1cm}})(\underline{\hspace{1cm}} - \underline{\hspace{1cm}})$

zeros: , ,

SKETCH GRAPH ----->

