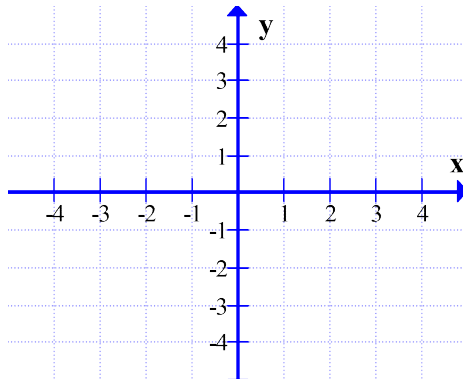


C12 - 3.4 - Graph Factored Form WS

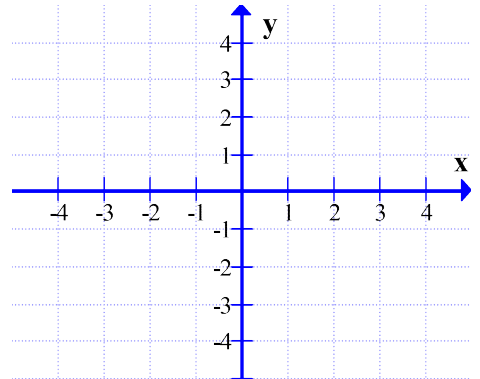
$$y = a(x \pm \#)(x \pm \#)(x \pm \#) \dots$$

Find the leading term, and graph. Sketch a graph and label x and y intercepts.

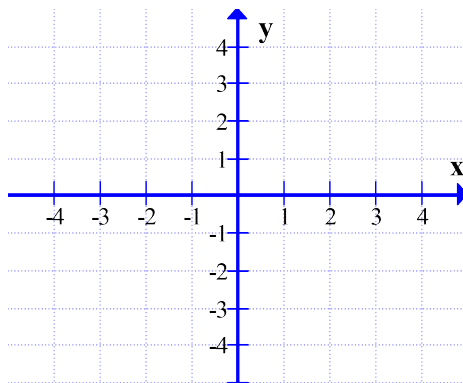
$$f(x) = (x + 1)(x - 2)(x + 2)$$



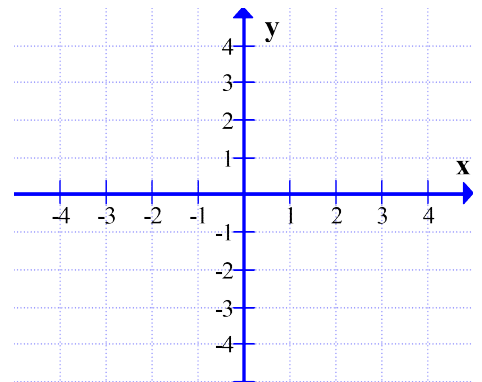
$$f(x) = (x - 2)(x - 1)(x + 4)$$



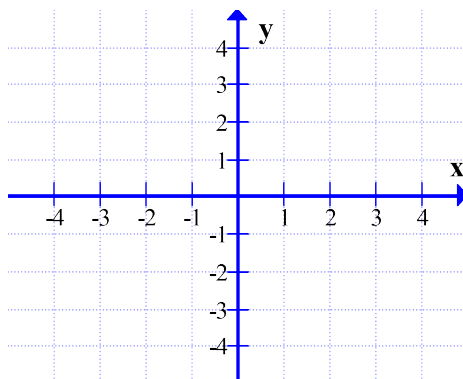
$$f(x) = -(x - 1)(x + 2)(x - 3)$$



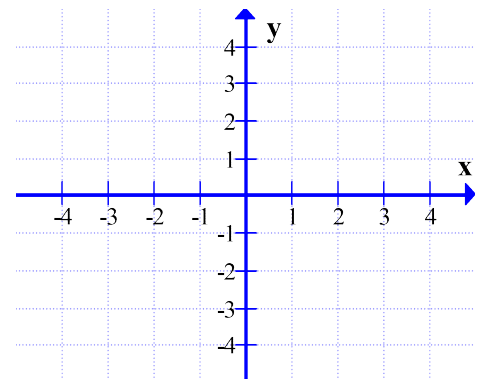
$$f(x) = (x + 2)^2(x - 2)$$



$$f(x) = (x - 1)^2(2 - x)$$



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



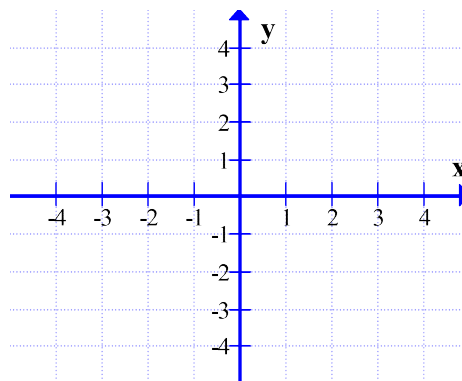
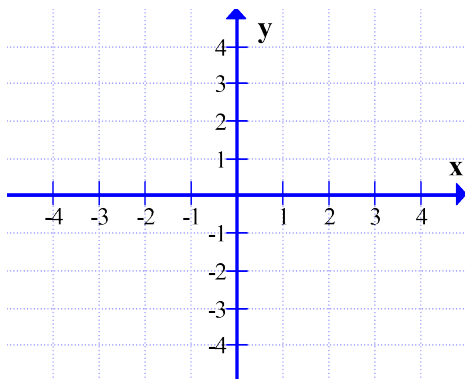
C12 - 3.4 - Graph Factored Form WS

$$y = a(x \pm \#)(x \pm \#)(x \pm \#) \dots$$

Find the leading term, and graph. Sketch a graph and label x and y intercepts.

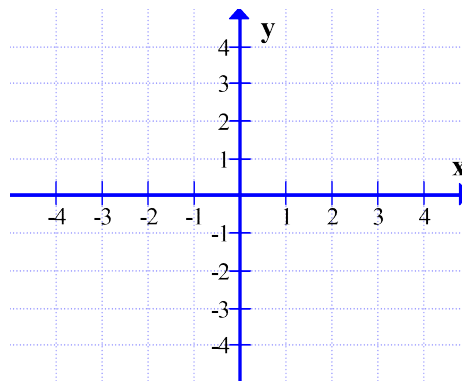
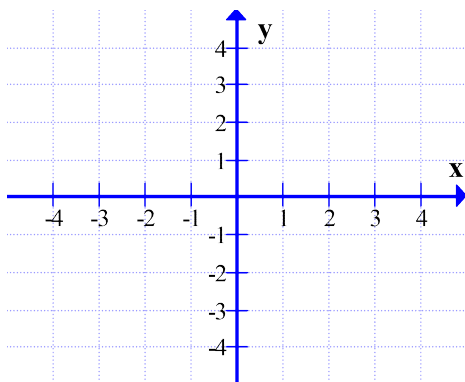
$$f(x) = -(x + 1)(x - 2)(x + 2)$$

$$f(x) = -(x + 1)(x - 1)(x + 4)$$



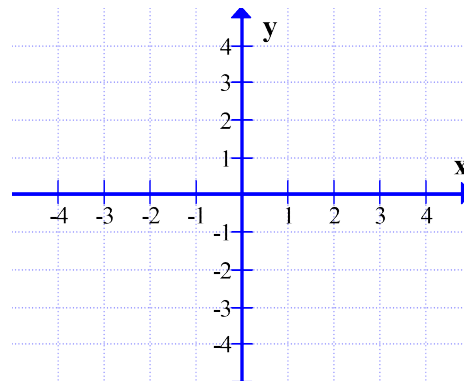
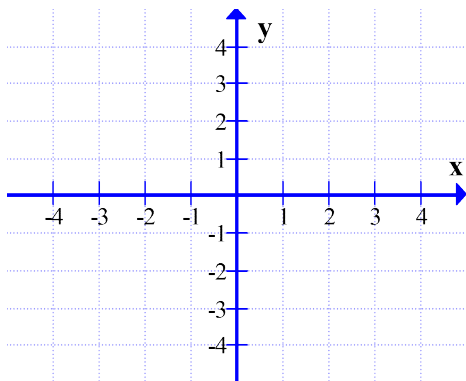
$$f(x) = (x - 1)^2(x + 2)(x - 3)^3$$

$$f(x) = (x + 2)(x + 2)(x - 2)(x - 2)$$



$$f(x) = x(x - 1)^2(x + 2)$$

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



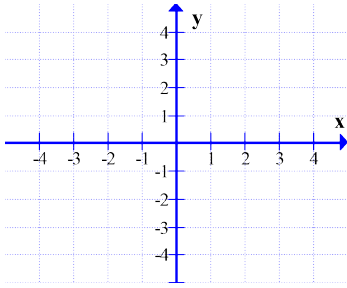
C12 - 3.4 - $x - int, y - int$ to Factored form WS

Find Equation in factored form, find the leading term, and graph.

$$x - int = 1,3$$

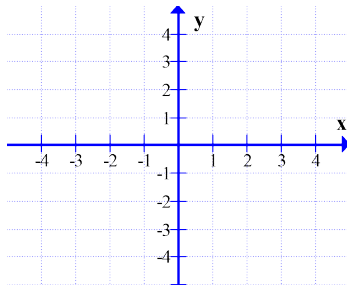
$$y - int = 3$$

$$y = a(x \pm \#)^{\#}(x \pm \#)^{\#}(x \pm \#)^{\#} \dots$$



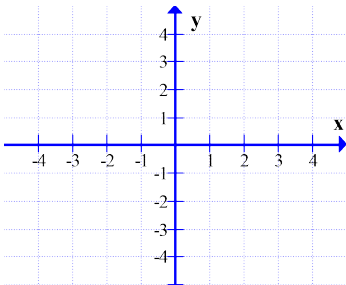
$$x - int = 1,3$$

$$y - int = 6$$

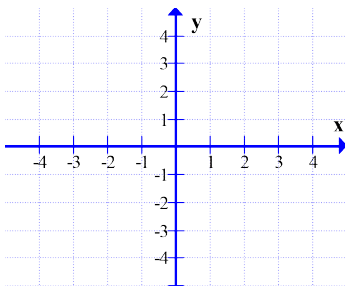


$$x - int = -4, -2, 1$$

$$y - int = 4$$



$$x - int = -2, 0, 2$$



$$x - int = -1, 1, 1$$

$$y - int = 1$$

$$x - int = -2, 1, 3$$

$$y - int = 6$$

$$x - int = -2, -2, 2$$

$$y - int = -8$$

$$x - int = -2, -2, -2$$

$$y - int = 4$$