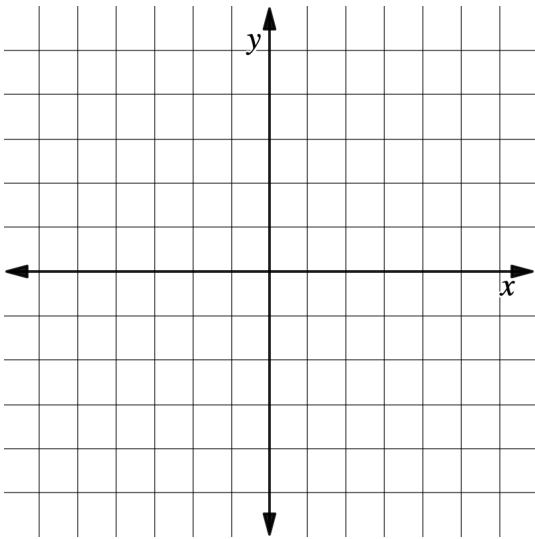
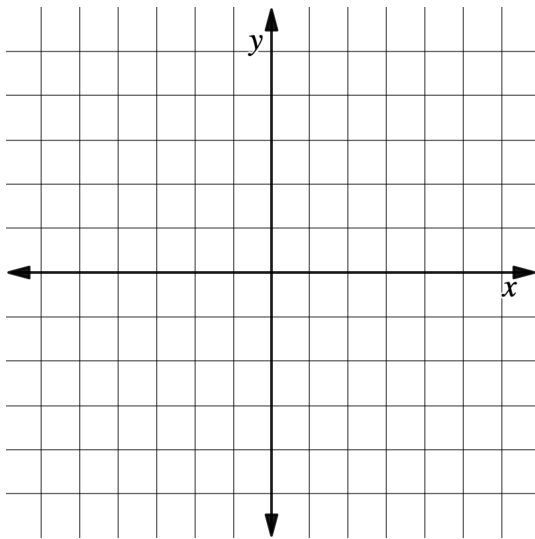
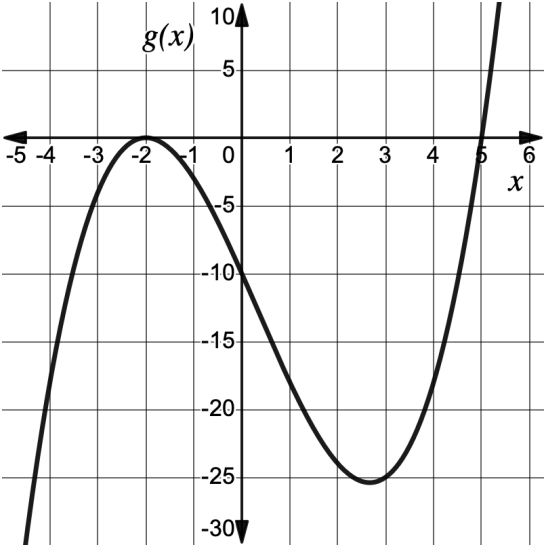
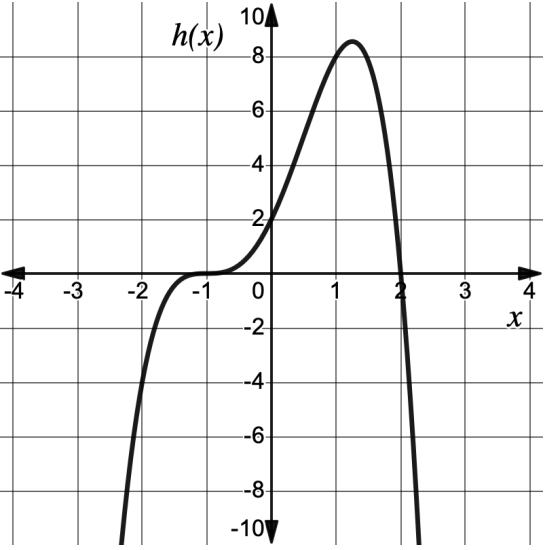


Graphing Polynomials Task

Name: _____

Question 1:	Question 2:
$f(x) = (x + 3)(x - 1)^2(x - 4)$	$f(x) = -\frac{1}{2}(x^2 + 4)(x - 3)$
Degree:	Degree:
Leading Coefficient:	Leading Coefficient:
End Behavior: $\lim_{x \rightarrow \infty} f(x) =$ $\lim_{x \rightarrow -\infty} f(x) =$	End Behavior: $\lim_{x \rightarrow \infty} f(x) =$ $\lim_{x \rightarrow -\infty} f(x) =$
Y-intercept:	Y-intercept:
Zeros and multiplicity:	Zeros and multiplicity:
Find one other ordered pair on the graph:	Find one other ordered pair on the graph:
Sketch a graph of f . Choose an appropriate scale. 	Sketch a graph of f . Choose an appropriate scale. 

Question 3:	Question 4:
	
Y-intercept:	Y-intercept:
Zeros and multiplicity:	Zeros and multiplicity:
End Behavior: $\lim_{x \rightarrow \infty} g(x) =$ $\lim_{x \rightarrow -\infty} g(x) =$	End Behavior: $\lim_{x \rightarrow \infty} h(x) =$ $\lim_{x \rightarrow -\infty} h(x) =$
Degree:	Degree:
Leading coefficient:	Leading coefficient:
Equation for $g(x)$ in intercept form:	Equation for $h(x)$ in intercept form:
Challenge! Equation for $g(x)$ in standard form:	Challenge! Equation for $h(x)$ in standard form: