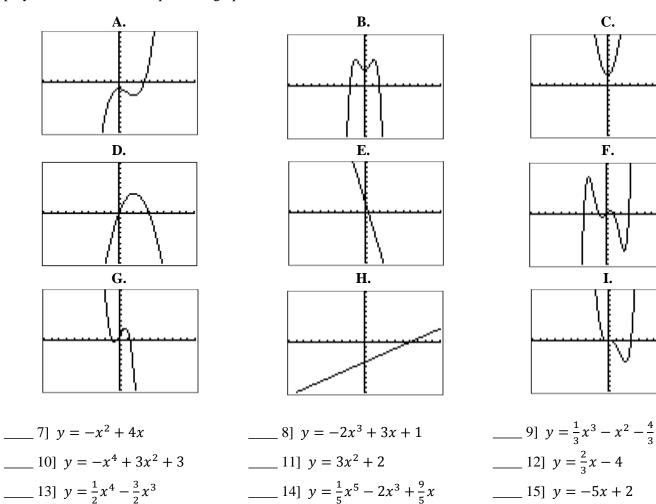
13] $y = \frac{1}{2}x^4 - \frac{3}{2}x^3$

Practice Worksheet: End Behavior & Graphing Polynomials

WITHOUT graphing, identify the end behavior of the polynomial function.

1] $y = 2x^5 + 7x^2 + 4x$	2] $y = -5x$	3] $y = 12x^4 - 2x + 5$
Degree: Sign of LC:	Degree: Sign of LC:	Degree: Sign of LC:
as $x \to -\infty$, $y \to _$	as $x \to -\infty, y \to$	as $x \to -\infty$, $y \to $
as $x \to \infty, y \to $	as $x \to \infty$, $y \to $	as $x \to \infty, y \to $
4] $y = 6 - 2x - 4x^2 + 5x^3$	5] $y = 1 + 2x^6 - 4x^2 - 2x^6$	6] $y = 4x + 2 - 5x^6$
Standard Form:	Standard Form:	Standard Form:
Degree: Sign of LC:	Degree: Sign of LC:	Degree: Sign of LC:
as $x \to -\infty$, $y \to _$	as $x \to -\infty, y \to $	as $x \to -\infty, y \to ___$
as $x \to \infty$, $y \to $	as $x \to \infty$, $y \to _$	as $x \to \infty$, $y \to $

Match the polynomial function with its graph WITHOUT using a graphing calculator. Think about how the degree of the polynomial affects the shape of the graph.



Solve and graph each of the following polynomial equations. Show all work. Circle each solution.

