


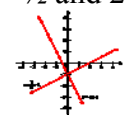
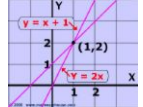
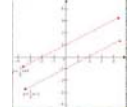
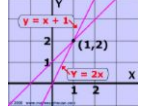
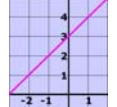


Commonly Confused Symbols and Concepts

Zero – can be an answer to a problem.	0	\emptyset	No solution - means there can't be any real answer to the problem.
Infinity - numbers increase with no limit.	∞	\mathbb{R}	Real Numbers – number system used to say all existing numbers can be answers in an equation
Multiplication – an operation	$8(x)$	$f(x)$	Function – label meaning “answer to the equation (function) when you use x .” Not multiplication
Negative sign of an integer	-3	3^{-2}	Negative exponent – base and exponent move to the other side of the fraction line and exponent is then positive. Negative in exponent is not related to sign of the number.
Division – an operation with specified divisor	$\frac{\quad}{\quad}$	$\sqrt{\quad}$	Radical – sign for taking the square root of a number
Negative exponent (see above)	3^{-2}	f^{-1}	Inverse function – symbol representation, not an exponent
Set-builder notation – identifies elements in a set	$\{x \dots\}$	$[3, \infty)$	Interval notation – identifies limits on a number line
Number line – only x can be graphed			Coordinate plane – for graphing x and y
Parallel slopes are equal to each other	$\frac{1}{2}$ and $\frac{1}{2}$ 	$-\frac{1}{2}$ and 2 	Perpendicular slopes are inverse and opposite sign
Consistent systems of equations – one or more points in common			Inconsistent systems of equation – no points in common
Independent equations – two or more equations create two or more lines (the lines can form consistent or inconsistent systems)			Dependent equations – two or more equations simplify to the same equation and create one line (sharing an infinite number of points)