3-2 Intercepts and Zeros

Nam	ne:		Time> Start:	Finish:	Total Time =
In 1-7, find the x-intercepts and the y-intercepts of the given equations doing so algebraically.					
1.	f(x) = 2x - 6	x-intercept =		y-interce	pt =
2.	$f(x) = x^2 + 8x + 12$	x-intercept =		y-interce	pt =
3.	f(x) = 3 x-1 - 6	x-intercept =		y-interce	pt =

4.	$f(x) = \sqrt{x+9}$	x-intercept =	y-intercept =
5.	f(x) = (x - 2) (x + 5)	x-intercept =	y-intercept =
6.	$f(x) = x^2 - 16$	x-intercept =	y-intercept =
7.	$f(x) = x^2 + 21x + 20$	x-intercept =	y-intercept =

In 8-12, use DESMOS to graph the equations and find the x-intercepts and y-intercepts.

8.	$f(x) = (x + 3)^2 - 4$	x-intercept =	y-intercept =
9.	f(x) = -2 x+3 + 6	x-intercept =	y-intercept =
10.	$f(x) = \sqrt{2x - 10}$	x-intercept =	y-intercept =
11.	$f(x) = \sqrt[3]{x-8}$	x-intercept =	y-intercept =
12.	f(x) = x-3 + 4	x-intercept =	y-intercept =

Fill in the blank.

13.	zeros = roots = x-intercepts =
14.	roots = x-intercepts = solutions =
15.	solutions = zeros = roots =
16.	solutions = x-intercepts = zeros =