

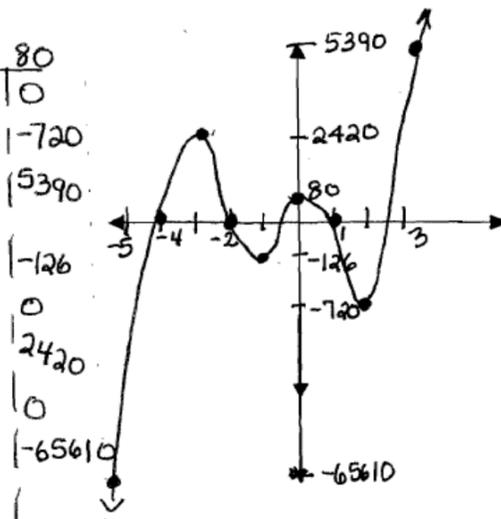
① Find all zeros of the function $f(x) = 4x^7 + 12x^6 - 29x^5 - 49x^4 - 20x^3 - 106x^2 + 108x + 80$

Total number of zeros 7

Graph y-intercept (0, 80)

Upper Bound 3 Lower Bound -5

	4	12	-29	-49	-20	-106	108	80	
1	4	16	-13	-62	-82	-188	-80	0	
2								-720	
3								5390	
4								-126	
-1								0	
-2	4	4	-37	25	-70	34	40	0	
-3								2420	
-4	4	-4	-13	3	-32	22	20	0	
-5								-65610	



Find the zeros

Zeros: $1, -2, -4, -\frac{1}{2}, \frac{5}{2}, \pm i\sqrt{2}$