

Funzioni naturali polinomiali

Periodo 2 - UdA 5

Valutare le seguenti funzioni polinomiali naturali finché $P(n)$ non supera il valore 10 e rappresentare su diagramma cartesiano gli elementi che non superano tale valore.

[1] $P(n) = n^3 + 2n^2 + n + 2$

[2] $P(n) = n^3 - 7n + 6$

[3] $P(n) = n^3 - 3n^2 + 4$

[4] $P(n) = n^4 + 3n^3 - 3n^2 - 7n + 6$

[5] $P(n) = n^4 - 3n^3 + 4n^2 - 6n + 4$

[6] $P(n) = n^5 + n^4 + 2n^2 - 4n$

[7] $P(n) = n^3 - 4n^2 + n + 6$

[8] $P(n) = n^4 - 5n^2 + 4$

[9] $P(n) = n^5 - 6n^3 + 6n^2 - 7n + 6$

[10] $P(n) = n^4 - 7n^3 + 17n^2 - 17n + 6$

[11] $P(n) = n^3 + 2n^2 + 2n + 4$

[12] $P(n) = n^3 + 6n^2 + 11n + 6$

[13] $P(n) = n^3 - n^2 - n + 1$

[14] $P(n) = n^4 - 7n^2 + 6n$

[15] $P(n) = n^4 + 5n^3 + 9n^2 + 15n + 18$

[16] $P(n) = n^5 + n^4 + 2n^2 - 4n$

[17] $P(n) = n^3 - 4n^2 + n + 6$

[18] $P(n) = n^3 + 2n^2 + n$

[19] $P(n) = n^4 + n^3 + 5n^2 + 5n$

[20] $P(n) = n^4 + 2n^3 - 7n^2 + 4n$

RISULTATI (diagrammi cartesiani in altro documento)

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1.	$P(0) = 2$	$P(1) = 6$	$P(2) = 20$			
2.	$P(0) = 6$	$P(1) = 0$	$P(2) = 0$	$P(3) = 12$		
3.	$P(0) = 4$	$P(1) = 2$	$P(2) = 0$	$P(3) = 4$	$P(4) = 20$	
4.	$P(0) = 6$	$P(1) = 0$	$P(2) = 20$			
5.	$P(0) = 4$	$P(1) = 0$	$P(2) = 0$	$P(3) = 22$		
6.	$P(0) = 0$	$P(1) = 0$	$P(2) = 48$			
7.	$P(0) = 6$	$P(1) = 4$	$P(2) = 0$	$P(3) = 0$	$P(4) = 10$	$P(5) = 36$
8.	$P(0) = 4$	$P(1) = 0$	$P(2) = 0$	$P(3) = 40$		
9.	$P(0) = 6$	$P(1) = 0$	$P(2) = 0$	$P(3) = 120$		
10.	$P(0) = 6$	$P(1) = 0$	$P(2) = 0$	$P(3) = 0$	$P(4) = 18$	
11.	$P(0) = 4$	$P(1) = 9$	$P(2) = 24$			
12.	$P(0) = 6$	$P(1) = 24$				
13.	$P(0) = 1$	$P(1) = 0$	$P(2) = 3$	$P(3) = 16$		
14.	$P(0) = 0$	$P(1) = 0$	$P(2) = 0$	$P(3) = 36$		
15.	$P(0) = 18$					
16.	$P(0) = 0$	$P(1) = 0$	$P(2) = 48$			
17.	$P(0) = 6$	$P(1) = 4$	$P(2) = 0$	$P(3) = 0$	$P(4) = 10$	$P(5) = 36$
18.	$P(0) = 0$	$P(1) = 4$	$P(2) = 18$			
19.	$P(0) = 0$	$P(1) = 12$				
20.	$P(0) = 0$	$P(1) = 0$	$P(2) = 12$			