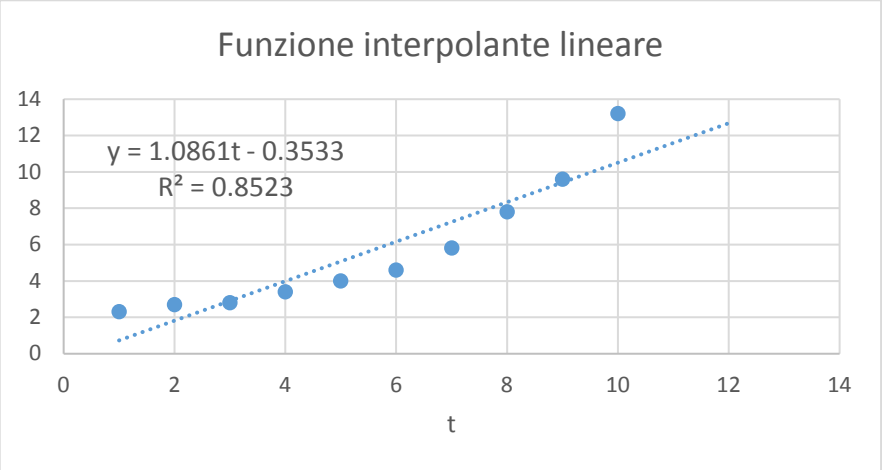
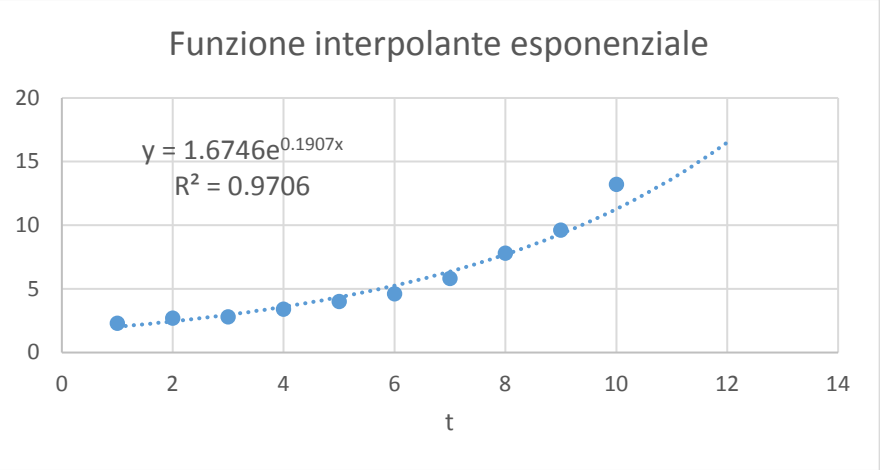
ESERCIZIO I

anno	t	yt
2004	1	2.3
2005	2	2.7
2006	3	2.8
2007	4	3.4
2008	5	4
2009	6	4.6
2010	7	5.8
2011	8	7.8
2012	9	9.6
2013	10	13.2

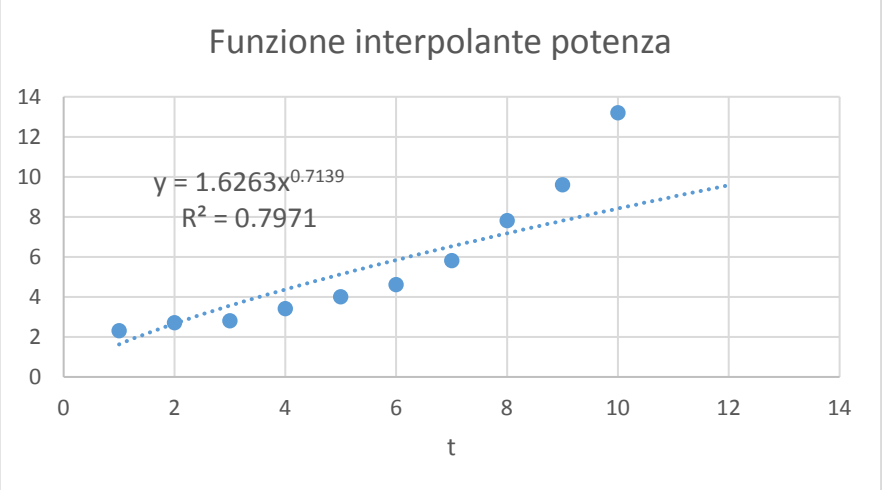


Migliore interpolante ==> esponenziale



Valore previsto al tempo t=11 (anno 2014)

11.59 Lineare
13.65 Esponenziale
9.01 Potenza



ESERCIZIO II

Informazioni note

P(X)=	0.25	P(X∩Y)=	0.1		
P(Y)=	0.3	P(X∩Z)=	0.15	P(X∩Y∩Z)=	0.04
P(Z)=	0.45	P(Y∩Z)=	0.12		

P(Y U Z)= P(Y) + P(Z)- P(Y ∩ Z) 0.63

P(X U Y U Z)= 0.67

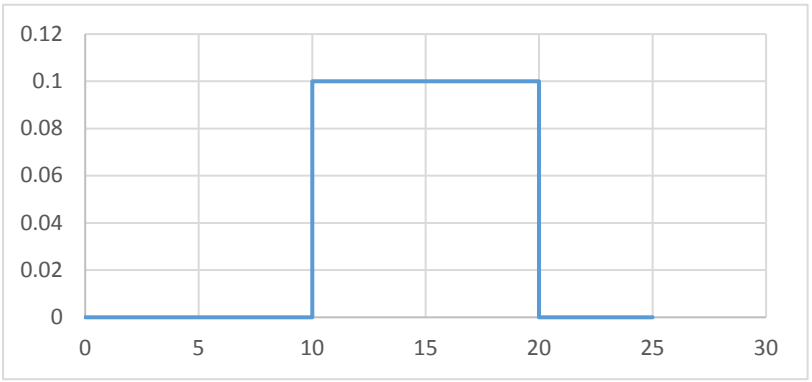
$P(Y \cup Z) \cap X = P((Y \cap X) \cup P(Z \cap X)) = P(Y \cap X) + P(Z \cap X) - P(X \cap Y \cap Z) =$ 0.21

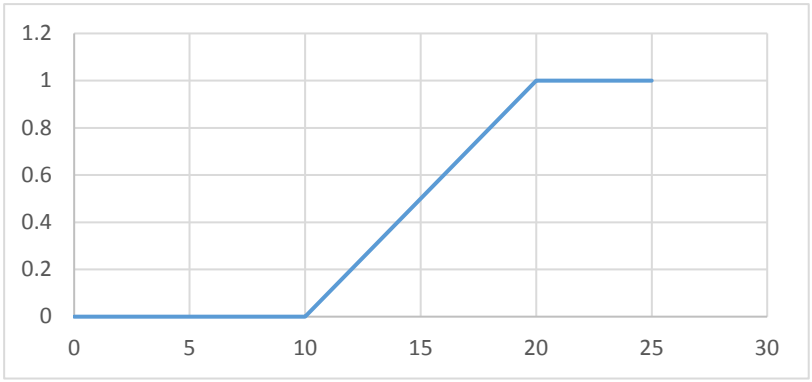
ESERCIZIO III

k=1/10

f(x)=1/10 x in [10 20]

Funzione di densità





Funzione di ripartizione
0 per x≤<10
(x-10)/10 per 10 ≤ x ≤ 20
1 per x ≥20

P(X<13)= 0.3
P(12<X < 14)= 0.2
Primo quartile= 12.5
x040= 14

ESERCIZIO IV

p= 0.3485
s(p)=sqrt(p(1-p)/n)=

Dall'equazione
0.3485+2.06*radq(0.3485*(1-0.3485)/n)=0.395

n= 445.6006

n==>446

Test ipotesi: pi1=pi2

p1=	0.3485	n1=	446
p2=	0.38	n2=	100

p= 0.354269
s(DP)= 0.05292
Z(DP)= -0.59524

Il valore del test cade nella zona di accettazione
Pvalue=
0.551686

	Interpolante lineare	
	b	a
	1.086061	-0.35333
	0.159853	0.991862
R2	0.85229	1.451937
	46.16007	8
	97.31103	16.86497
	1.210128	1.674628
	0.011734	0.07281
	0.970608	0.106583
	264.1793	8
	3.001071	0.09088

0	0
10	0
10	0.1
20	0.1
20	0
25	0

0	0
10	0
20	1
25	1