Questions

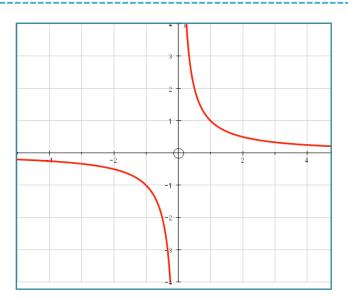
In the investigation, assume all constants of integration are zero and each integration and differentiation is done with respect to the variable x.

Which graph ...

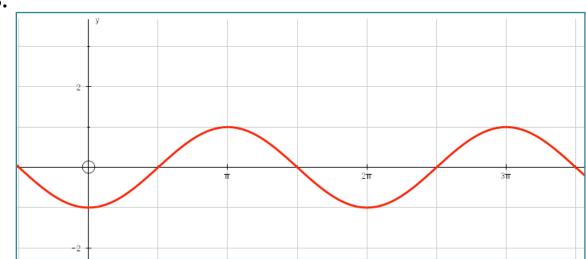
Statement	Graph number
is the integral of -1/x²?	
is the gradient function of 1/x?	
is the integral of sin(x)?	
is the gradient function of cos(x)?	
is the gradient function of -ln(x)?	
is the integral of $sin(\frac{1}{2}x)$?	
is the gradient function of sin²(x)?	
is the integral of e ^x ?	
is the gradient function of sin(x) + 2x?	
is the integral of e ^{2x} ?	
is the gradient function of e ^{2x} ?	
is the integral of 1/x?	
is the gradient function of tan(x)?	
is the integral of sec(x)tan(x)?	
is the integral of cos(x)?	
is the gradient function of -ln(cos(x))?	

Graphs

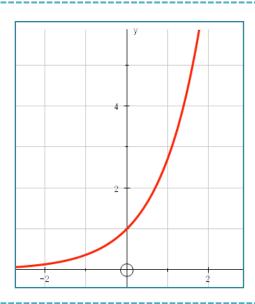
A.



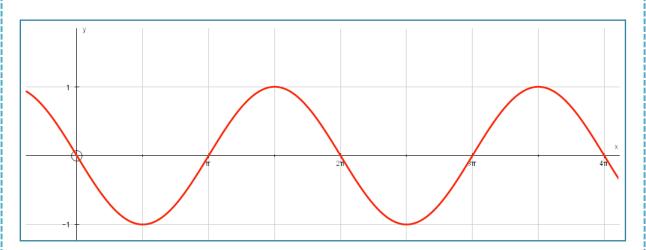
В.



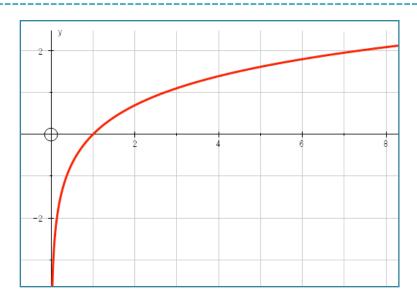
C.



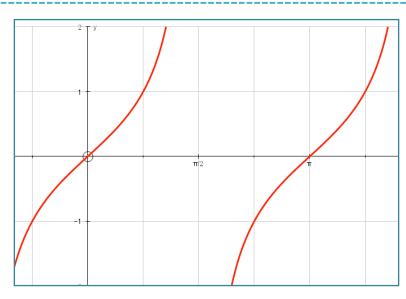




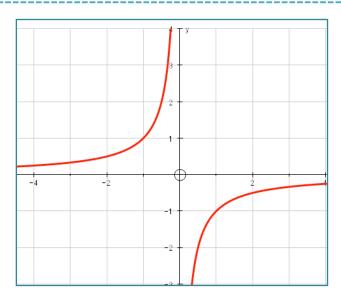
E.



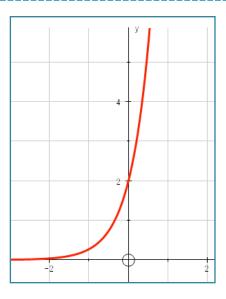
F.



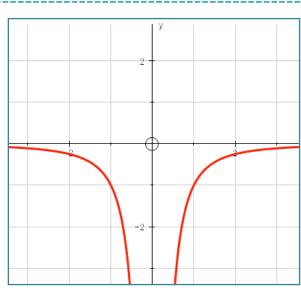
G.



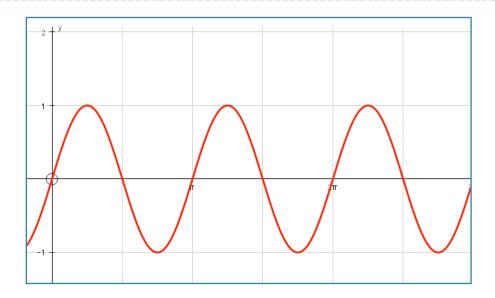
Н.



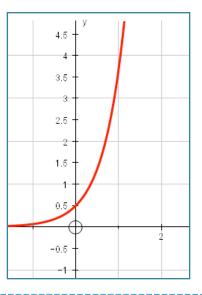
I.



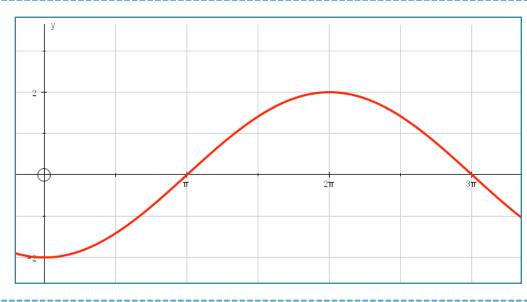
J.

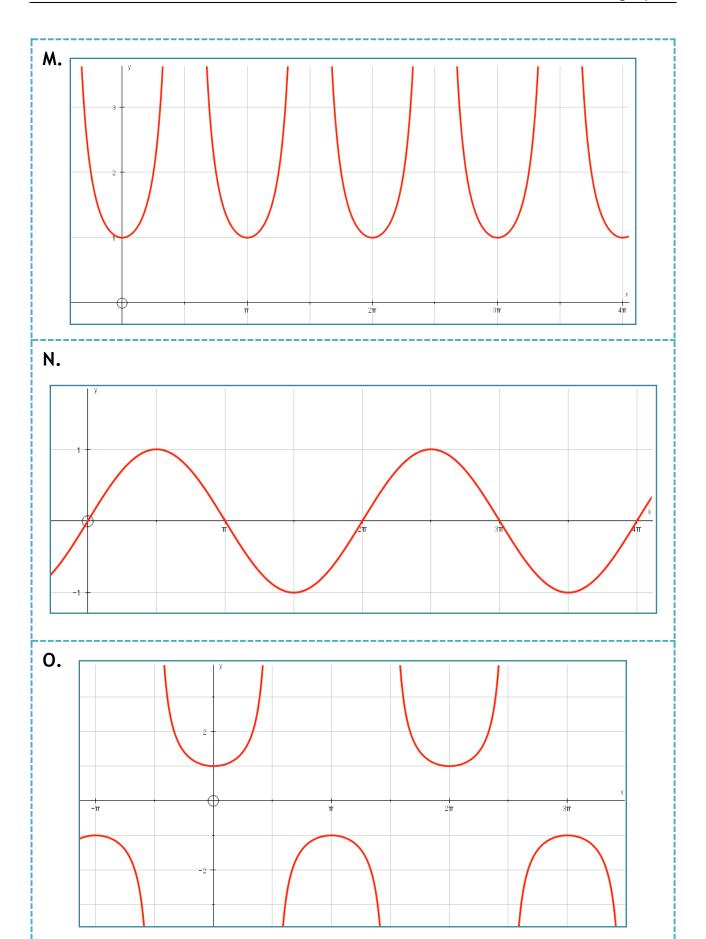


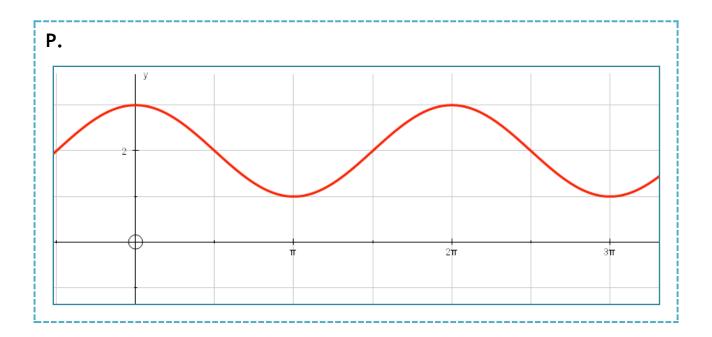
K.



L.







Solutions

Statement	Graph number
is the integral of $-1/x^2$?	A
has the gradient function of 1/x?	I
is the integral of sin(x)?	В
is the gradient function of cos(x)?	D
is the gradient function of -ln(x)?	G
is the integral of $\sin(\frac{1}{2}x)$?	L
is the gradient function of $sin^2(x)$?	J
is the integral of e ^x ?	С
is the gradient function of sin(x) + 2x?	Р
is the integral of e ^{2x} ?	К
is the gradient function of e ^{2x} ?	н
is the integral of 1/x?	Е
is the gradient function of tan(x)?	M
is the integral of sec(x)tan(x)?	0
is the integral of cos(x)?	N
is the gradient function of -ln(cos(x))?	F