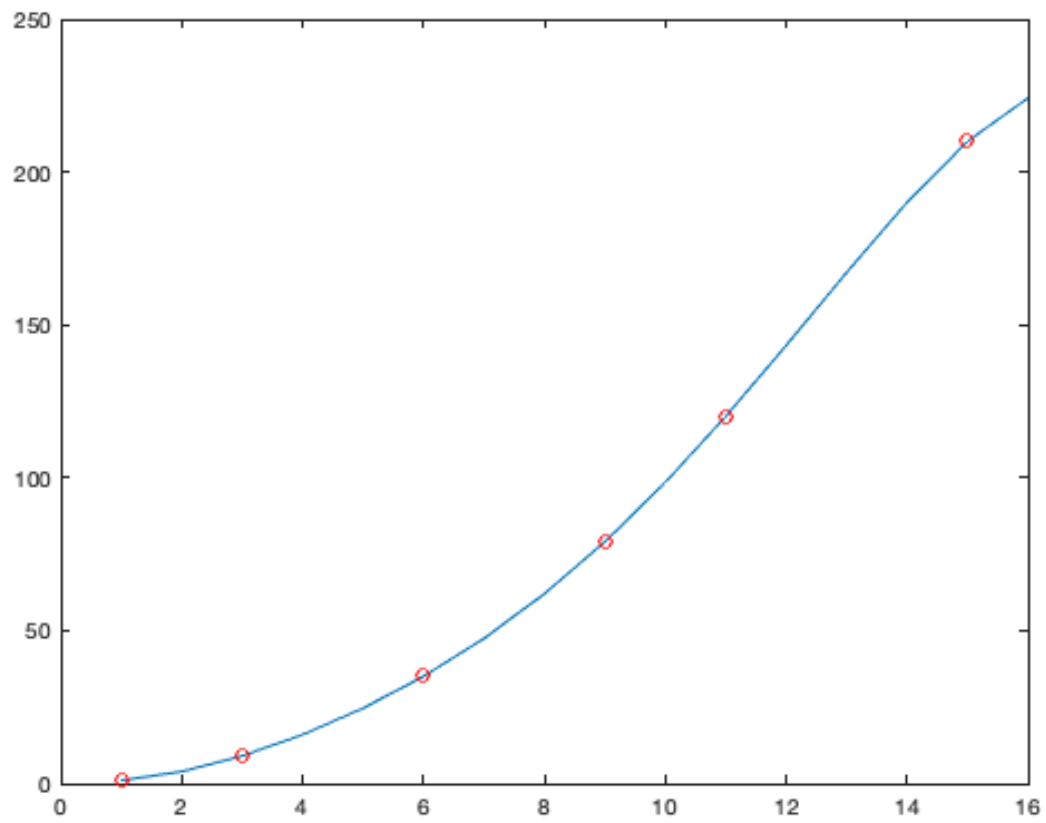


---

```
% This question is actually about Lagrange interpolation
x0 = [1 3 6 9 11 15];
y0 = [1 9 35 79 120 210 ];
x=[1:16];
y=lagrange(x0,y0,x);
plot(x,y,x0,y0,'ro')
```

```
function y=lagrange(x0,y0,x)
n=length(x0);m=length(x);
for i=1:m
z=x(i);
s=0.0;
for k=1:n
p=1.0;
for j=1:n
if j~=k
p=p*(z-x0(j))/(x0(k)-x0(j));
end
end
s=p*y0(k)+s;
end
y(i)=s;
end
end
```



*Published with MATLAB® R2021b*