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Solution to exercise 2.1.2

Dot and vector products of two vectors **u** and **v** can be calculated using Octave built-in functions **dot(u,v)** and **cross(u,v)** respectively.

```
<sxh c++> disp("-----") disp("When giving vector coordinates  
enclose them in [], e.g. [1,23,3]") disp("-----") u = input("Give  
coordinates of vector U in R3 : "); v = input("Give coordinates of vector V in R3 : "); d = dot(u,v); w =  
cross(u,v); disp("Euclidean norms of vectors U and V, respectively:") disp(norm(u)) disp(norm(v))  
disp("Scalar (dot) product of U and V:") disp(d) disp("Vector product of U and V:") disp(w) </sxh>
```

Download the script: [dotcross.m](#)

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