

```
function dg = constraintg(x)
    %%% Calculate the gradient of the constraints
    %%% dg(x)/dx = [dg1/dx1, dg1/dx2, ... , dg1/dxn;
    %%%             dg2/dx1, dg2/dx2, ... , dg2/dxn;
    %%%             ...
    %%%             dgm/dx1, dgm/dx2, ... , dgm/dxn]

    dg = [-2, 2*x(2); 5, 2*(x(2)-1)];

end
```