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```
function [y_value] = PS08_sub_function(x_value)

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% ENGR 132
% Program Description
% This program is designed to be a sub function for the simplex
% function
% by providing a known function to the simplex function code.
%
% Function Call
% PS08_sub_function(x_value)
%
% Input Arguments
% 1. x_value: the x value of the function
%
% Output Arguments
% 1. y_value: the corresponding y value for the given function of x
%
% Assignment Information
%   Assignment:      PS 08, Problem 3
%   Author:          Tomoki Koike, koike@purdue.edu
%   Team ID:         002-08
%   Contributor:     Name, login@purdue [repeat for each]
%   My contributor(s) helped me:
%       [ ] understand the assignment expectations without
%           telling me how they will approach it.
%       [ ] understand different ways to think about a solution
%           without helping me plan my solution.
%       [ ] think through the meaning of a specific error or
%           bug present in my code without looking at my code.
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

INITIALIZATION

```
% the nameArray for the academic integrity statement
```

```
nameArray = "Tomoki Koike";
```

CALCULATIONS

```
y_value = 2 * (x_value - 4)^2 - 5;
```

COMMAND WINDOW OUTPUT

ACADEMIC INTEGRITY STATEMENT

```
% Call your academic integrity statement here  
PS07_academic_integrity_koike(nameArray);
```

```
Error using evalin  
Undefined function or variable 'x_value'.
```

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