Your Name:
ID\#:
$\qquad$

Take Home: Quiz 3 (15 pts) - Modular Design \& Functions in C Submit a hard-copy of your solutions in lab this week!

1. (2 pts) What is a function? Explain in your own words!

See Quiz 2
2. (2 pts) What is a structure chart? Explain.

A structure divides a problem into subproblems and has a hierarchical relationships of those subproblems.
3. (1 pts) What is a pointer?

A pointer is a variable that points/stores the address of another variable.
4. (3 pts - 1 pt for return type, 2 pts for input parameters) Provide the prototype for a function called volume_pyramid () that accepts two floating-point input parameters, which represent the base (B) and height (h) of the square pyramid. The function returns the volume (V) of the pyramid defined by the two parameters.
double volume_pyramid(double $B$, double $h$ )
\{ double V;
return V;
\}
5. (7 pts -1 pt for the header, 1 pt for variable declarations, 3 pts for computation, 2 pts for return value) Provide the function definition for volume_pyramid(). Also, be sure to provide the function header for volume_pyramid(). Recall: V = 1/3 x (B x h)
double volume_pyramid(double $B$, double $h$ )
\{ double V;
$\mathrm{V}=1 / 3$ * (B * h);
return V;
\}

