Suppose the viewpoint is at world coordinates (5, 2, 4).
Compute a unit length vector through the pixel at col 125 row 225.

Assume the window dimensions are 600 X 400 (i.e. 601 X 401);
and the world dimensions are 8 X 6 (remember, these are doubles, so they are 8.0 X 6.0).

ANSWER:
/* Practice with pointers and arrays, and tracing through a program */

#include <stdio.h>

int main (void)
{   
    int values[10] = { -1, 14, -24, 6, 9, 2, -3, 4, 7, 3 }; 
    char word[32] = "The semester is just beginning!"; 
    int i;

    int *ptr1 = values; 
    printf ("ptr1 = %i \n", *ptr1);

    int *ptr2 = ptr1 + 3; 
    printf ("ptr2 = %i \n", *ptr2);

    char *ptr3;
    ptr3 = word; 
    printf ("*ptr3 = %c \n", *ptr3);
    printf ("*(ptr3 + 4) = %c \n", *(ptr3 + 4));

    printf ("Letters: ");
    char *ptr4 = word;
    for (i=0; i<8; i++) {
        printf ("%c", *ptr4);
        ptr4 += 4;
    }

    printf ("\n%s \n", word);
    return 0; }

OUTPUT: (print the output exactly as it would appear on the screen when run)