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Problems 1-10 refer to the following statements:

What is the value of the following expressions? For each problem, restart with the values as above.

above.	Work Space	Your Answer	<u>Computer</u>
1. *ptr		1. 5	1. 5
2. *ptr + 3		2. 8	2. 8
3. *(ptr+3)		38	38
4. *ptr + *(ptr + 5)		4. 12	4. 12
5. *(ptr + 2) - 1		5. 3	5. 3
6. x[3] - *ptr		613	613
7. *ptr + x[5] + *(ptr + 1) + x[2]		7. 22	7. 22
8. *x		8. 5	8. 5
9. *x + *ptr		9. 5	9. 10
10. x[2] - *ptr + 3		10. 2	10. 2

→ more on next page

Problems 11-16 refer to the following declarations and function:

```
int partial_sum (int x[], int npts); /* function prototype */
 /* Array & variables as initialized in main, abridged */
  int main (void)
            0 1 2 3 4 5 6 7 array positions */
  int a[] = \{-6, 3, 4, 1, 8, 20, 16, 7\};
  int *ptr = &a[2];
/*____*/
  /* This function will add up a fragment of the array */
  int partial_sum (int x[], int npts) {
   int k, sum = 0;
   /* Compute partial sum. */
   for (k = 0; k < npts; k++)
      sum += x[k];
   return sum;
  }
  Computer
                                                               You
11. What is the value of the reference
                                                               11. 5
                                                                         11. 5
    partial_sum(ptr, 2)
12. What is the value of the reference
                                                               12. 29
                                                                         12. 29
    partial_sum(ptr+1, 3)
13. What is the value of the reference
                                                               13. 53
                                                                         13. 53
    partial_sum(a, 8)
14. What is the value of the reference
                                                               14. 2
                                                                         14. 2
    partial sum(a, 4)
15. What is the value of the reference
                                                               15. 13
                                                                         15. 13
    partial_sum(ptr, a[1])
16. What is the value of the reference
                                                               16. 9
                                                                         16. 9
    partial_sum(&a[3], 2)
```