Quiz 17

Name:

Solutions given without showing work will earn a zero. Circle your answers.

Problem 1. [3+2=5 points]

(a) Find the first 4 terms of the sequence with the formula $a_n = 2n - 4$

$$a_1$$
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 a_2

 a_3 n=3 2(3)-4=2 2(4)

(b) Find
$$\sum_{n=1}^{4} (2n-4) = -2 + 0 + 2 + 4 = 4$$

Problem 1. [3+2=5 points]

(a) Find the first 5 terms of the sequence with the formula $a_n = (n-2)^2$

$$a_1 = (1-2)^2 = (-1)^2 = 1$$
 $a_2 = (2-2)^2 = 0^2 = 0$
 $a_3 = (3-2)^2 = 1^2 = 1$

$$a_{4} = (4-2)^{2} = 2^{2} = 4$$

$$a_{5} = (5-2)^{2} = 3^{2} = 9$$

1,0,1,4,9

(b) Find
$$\sum_{n=1}^{5} (n-2)^2 = / + O + / + 4 + 9 = / 5$$