

Physics 416 Quiz Sheet

Quiz 14

Name: _____

Circle which form of the equations is preferred by the AIP Style Guide:

1. $A = \left((x - x_c)^2 + (y - y_c)^2 \right)^3$ $A = \left[(x - x_c)^2 + (y - y_c)^2 \right]^3$

2. $e^{\frac{a+bx}{c+dy}}$ $\exp\left(\frac{a+bx}{c+dy}\right)$

3. $B' = \frac{[3J/(J+1)]T_N m^2}{E_n - B_n^2 b^2 n^2 T_n}$ $B' = \frac{\frac{3J}{J+1} T_N m^2}{E_n - B_n^2 b^2 n^2 T_n}$

4.

$\langle k+q | V_0 | k \rangle = \langle k+q | V(r, r_0) \sigma(r_0, r) d\tau | k_0 \rangle_0$ $\langle k+q | V_0 | k \rangle = \langle k+q | V(r, r_0) \sigma(r_0, r) d\tau | k_0 \rangle_0 +$
 $\quad + \langle k+q | v(r - r_0) \sigma(r_0, r) d\tau_0 | k_0 + q \rangle$ $\quad \langle k+q | v(r - r_0) \sigma(r_0, r) d\tau_0 | k_0 + q \rangle \times$
 $\quad \times \langle k+q | 2N_1 | k_0 \rangle + \langle k+q | 2N_2 | k_0 \rangle$ $\quad \langle k+q | 2N_1 | k_0 \rangle + \langle k+q | 2N_2 | k_0 \rangle$

5. $a/b = \frac{B(E_0) + c}{f_1 + f_2} f(\omega)$ $\frac{a}{b} = \frac{B(E_0) + c}{f_1 + f_2} f(\omega)$

6. $A = \frac{x}{y} \begin{pmatrix} (a+b)/n & 0 \\ 0 & (a+c)/n \end{pmatrix}$ $A = \frac{x}{y} \begin{pmatrix} \frac{a+b}{n} & 0 \\ 0 & \frac{a+c}{n} \end{pmatrix}$

7. $\frac{a}{b} = \int_a^b x dx$ $a/b = \int_a^b x dx$