Signal Interpolation and Sampling — KEY

Show your solutions, including computations and work, not just the answers. Use proper units.

1. **Complex.** A beamline has one incident (X-ray) energy and one detector set at successive positions. In each orientation, the detector records the number of photons that arrive in a fixed exposure time. Orientation A records $N_A = 1.20 \times 10^{6}$ photons; orientation B records $N_B = 4.80 \times 10^{5}$ photons. Assuming the beam intensity is constant between the two exposures, what is the ratio of the detector's effective collecting area in orientation A to that in orientation B?

   Given:

   $N_A = 1.20 \times 10^{6}$ photons

   $N_B = 4.80 \times 10^{5}$ photons

   Solution:

   $$\frac{A_A}{A_B} = \frac{N_A}{N_B} = \frac{1.20 \times 10^{6}}{4.80 \times 10^{5}} = 2.5$$

2. **Point Pascal.** A bounce-rate measurement reported on the Annals Analytic Set includes 1,247 sessions. The true bounce rate is $p = 0.62$. Each session is independent. Let X be the number of sessions that bounce. What is the probability that exactly 770 sessions bounce? Use the binomial PMF.

   Given:

   $n = 1247$, $p = 0.62$, $k = 770$

   $$P(X = 770) = \binom{1247}{770} (0.62)^{770} (0.38)^{477}$$

3. **Expensive.** Several times a week, Chuck gets in the room to run and teach. When running, Chuck burns 10 calories per minute. Jodi enjoys that exercise has burned 120 calories per minute. The Pats Kennel is open for 8 hours. This calculates when Jodi's energy has a total of 23 minutes. How long does Chuck expect to teach today?

   Given:

   $r_C = 10$ calories per minute

   $r_J = 120$ calories per minute

   $T = 8 \times 60 = 480$ minutes

   $$r_C t + r_J (T - t) = 2300 \Rightarrow t = \frac{2300 - 120T}{r_C - r_J} = \frac{2300 - 57600}{10 - 120} = 523.6\ \text{minutes}$$

4. **Circles.** Bennett has a bounce set indicates avoid dismiss on the playground. If Wayne uses 100 cookies for the Santa Cruz implies a total of 84 ABC for changes, how many 4.0 years spent are more issues Cornwall have?

   Given:

   $n = 100$ cookies

   $k = 84$ ABC

   $$\text{years} = \frac{n}{k} = \frac{100}{84} = 1.19\ \text{years}$$

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Annelies Wilder-Smith

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