



Living with the Wild

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1. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

2. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$
3. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

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11. $\int_{-\infty}^{\infty} f(x) \delta(x-a) dx = f(a)$

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Consider the following two functions $f: \mathbb{R} \rightarrow \mathbb{R}$ and $g: \mathbb{R} \rightarrow \mathbb{R}$.

x $f(x) = \begin{cases} x^2 + 1 & \text{if } x < 0 \\ x^2 - 1 & \text{if } x \geq 0 \end{cases}$

y $g(x) = \begin{cases} x^2 + 1 & \text{if } x < 0 \\ x^2 - 1 & \text{if } x \geq 0 \end{cases}$

QUESTION 2

a Sketch the graphs of f and g on the same Cartesian coordinate system. [4]

b Determine the domain and range of f and g . [2]

c Determine the inverse functions f^{-1} and g^{-1} . [4]

QUESTION 3 (10 marks) [10]

a Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + 1$. Determine the domain and range of f . [2]

b Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + 1$. Determine the inverse function f^{-1} . [4]

- $f^{-1}(x) = \sqrt{x-1}$
- $f^{-1}(x) = -\sqrt{x-1}$
- $f^{-1}(x) = \pm\sqrt{x-1}$
- $f^{-1}(x) = \sqrt{x-1}$ and $f^{-1}(x) = -\sqrt{x-1}$
- $f^{-1}(x) = \sqrt{x-1}$ and $f^{-1}(x) = -\sqrt{x-1}$ for $x \geq 1$

QUESTION 4 (10 marks) [10]

a Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^2 + 1$. Determine the domain and range of f . [2]

L \mathbb{Z} is not a subring of \mathbb{R} because \mathbb{Z} is not closed under addition. For example, $1 + 1 = 2 \notin \mathbb{Z}$.

Main body of handwritten text, consisting of several lines of cursive script.

Second section of handwritten text, appearing as a distinct paragraph.

Third section of handwritten text, continuing the narrative or list.

Final section of handwritten text, including a list-like structure and concluding remarks.

1. $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

4-H/FFA Shows Alaska State Fair 2025 Aug. 28- Sept. 1

4-H/FFA Shows

These times are an approximation; however, shows will NOT start before the given time.

Monday, August 28

9:00 AM - 12:00 PM - 4-H/FFA Shows

1:00 PM - 4:00 PM - 4-H/FFA Shows

5:00 PM - 8:00 PM - 4-H/FFA Shows

Tuesday, August 29

9:00 AM - 12:00 PM - 4-H/FFA Shows

1:00 PM - 4:00 PM - 4-H/FFA Shows

5:00 PM - 8:00 PM - 4-H/FFA Shows

Wednesday, August 30

9:00 AM - 12:00 PM - 4-H/FFA Shows

1:00 PM - 4:00 PM - 4-H/FFA Shows

5:00 PM - 8:00 PM - 4-H/FFA Shows

Thursday, September 1

9:00 AM - 12:00 PM - 4-H/FFA Shows

1:00 PM - 4:00 PM - 4-H/FFA Shows

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5:00 PM - 8:00 PM - 4-H/FFA Shows

Animal Requirements (table 2)

Species	Minimum X12.0	Maximum X12.0	Notes	Minimum X12.0
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Important Dates:

Activity	Start	End	Notes
Activity 1	1/1/2020	1/15/2020	Activity 1: Planning and Control
Activity 2	1/15/2020	1/30/2020	Activity 2: Planning and Control
Activity 3	1/30/2020	2/15/2020	Activity 3: Planning and Control
Activity 4	2/15/2020	2/30/2020	Activity 4: Planning and Control
Activity 5	2/30/2020	3/15/2020	Activity 5: Planning and Control
Activity 6	3/15/2020	3/30/2020	Activity 6: Planning and Control
Activity 7	3/30/2020	4/15/2020	Activity 7: Planning and Control
Activity 8	4/15/2020	4/30/2020	Activity 8: Planning and Control
Activity 9	4/30/2020	5/15/2020	Activity 9: Planning and Control
Activity 10	5/15/2020	5/30/2020	Activity 10: Planning and Control
Activity 11	5/30/2020	6/15/2020	Activity 11: Planning and Control
Activity 12	6/15/2020	6/30/2020	Activity 12: Planning and Control
Activity 13	6/30/2020	7/15/2020	Activity 13: Planning and Control
Activity 14	7/15/2020	7/30/2020	Activity 14: Planning and Control
Activity 15	7/30/2020	8/15/2020	Activity 15: Planning and Control
Activity 16	8/15/2020	8/30/2020	Activity 16: Planning and Control
Activity 17	8/30/2020	9/15/2020	Activity 17: Planning and Control
Activity 18	9/15/2020	9/30/2020	Activity 18: Planning and Control
Activity 19	9/30/2020	10/15/2020	Activity 19: Planning and Control
Activity 20	10/15/2020	10/30/2020	Activity 20: Planning and Control
Activity 21	10/30/2020	11/15/2020	Activity 21: Planning and Control
Activity 22	11/15/2020	11/30/2020	Activity 22: Planning and Control
Activity 23	11/30/2020	12/15/2020	Activity 23: Planning and Control
Activity 24	12/15/2020	12/30/2020	Activity 24: Planning and Control
Activity 25	12/30/2020	1/15/2021	Activity 25: Planning and Control
Activity 26	1/15/2021	1/30/2021	Activity 26: Planning and Control
Activity 27	1/30/2021	2/15/2021	Activity 27: Planning and Control
Activity 28	2/15/2021	2/30/2021	Activity 28: Planning and Control
Activity 29	2/30/2021	3/15/2021	Activity 29: Planning and Control
Activity 30	3/15/2021	3/30/2021	Activity 30: Planning and Control
Activity 31	3/30/2021	4/15/2021	Activity 31: Planning and Control
Activity 32	4/15/2021	4/30/2021	Activity 32: Planning and Control
Activity 33	4/30/2021	5/15/2021	Activity 33: Planning and Control
Activity 34	5/15/2021	5/30/2021	Activity 34: Planning and Control
Activity 35	5/30/2021	6/15/2021	Activity 35: Planning and Control
Activity 36	6/15/2021	6/30/2021	Activity 36: Planning and Control
Activity 37	6/30/2021	7/15/2021	Activity 37: Planning and Control
Activity 38	7/15/2021	7/30/2021	Activity 38: Planning and Control
Activity 39	7/30/2021	8/15/2021	Activity 39: Planning and Control
Activity 40	8/15/2021	8/30/2021	Activity 40: Planning and Control
Activity 41	8/30/2021	9/15/2021	Activity 41: Planning and Control
Activity 42	9/15/2021	9/30/2021	Activity 42: Planning and Control
Activity 43	9/30/2021	10/15/2021	Activity 43: Planning and Control
Activity 44	10/15/2021	10/30/2021	Activity 44: Planning and Control
Activity 45	10/30/2021	11/15/2021	Activity 45: Planning and Control
Activity 46	11/15/2021	11/30/2021	Activity 46: Planning and Control
Activity 47	11/30/2021	12/15/2021	Activity 47: Planning and Control
Activity 48	12/15/2021	12/30/2021	Activity 48: Planning and Control
Activity 49	12/30/2021	1/15/2022	Activity 49: Planning and Control
Activity 50	1/15/2022	1/30/2022	Activity 50: Planning and Control

Signatures:

Parent Volunteer Log:

Fourth Workshop

1. The first part of the workshop is a presentation by the author of the book, which will be followed by a Q&A session. The author will discuss the book's content, the research behind it, and the challenges of writing it. The Q&A session will be moderated by the workshop's co-organizers.

2. The second part of the workshop is a panel discussion. The panelists will be experts in the field of [topic] and will discuss the book's impact on the field, the author's research, and the challenges of writing it. The panel will be moderated by the workshop's co-organizers.

3. The third part of the workshop is a book club. The book club will meet regularly to discuss the book's content and the author's research. The book club will be moderated by the workshop's co-organizers.

4. The fourth part of the workshop is a networking session. The networking session will provide an opportunity for participants to meet and talk to the author, the panelists, and other participants. The networking session will be moderated by the workshop's co-organizers.

Main body of handwritten text, consisting of several lines of cursive script. The text is extremely blurry and difficult to decipher, but appears to be a continuous paragraph.