

Numerical examples of Fourier series

$$b_n = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \sin \frac{n\pi x}{2} dx; n = 1, 2, 3, \dots$$

... (caption), difficult for...
< 0 and 0 < x < 2, it is convenient to separate...
corresponding parts. Thus inserting the...
us to the form

$$f(x) = \frac{1}{2} \int_{-\pi}^{\pi} f(x) \cos \frac{n\pi x}{2} dx + \frac{1}{2} \int_0^2 x \cos \frac{n\pi x}{2} dx$$

... the method of integration will differ...

$$\left[\sin \frac{n\pi x}{2} \right]_0^2 + \frac{1}{2} \left[\frac{2}{n\pi} \sin \frac{n\pi x}{2} - \frac{2x}{n\pi} \cos \frac{n\pi x}{2} \right]_0^2$$

$$\frac{2}{n\pi} [0 - 0] + \frac{1}{2} \left[0 - \frac{2}{n\pi} \cos n\pi + \frac{2x}{n\pi} \cos \frac{n\pi x}{2} \right]_0^2$$

... the a_n are given by the following...

$$a_n = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \cos \frac{n\pi x}{2} dx$$

... the above integrations are...
... $n=0$, and get

$$a_0 = \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) dx = \frac{1}{\pi} \int_0^2 x dx = \frac{1}{\pi} \left[\frac{x^2}{2} \right]_0^2 = \frac{2}{\pi}$$

$$a_0 = \left[\frac{x^2}{2} \right]_0^2 = \frac{2^2}{2} = 2$$

... to obtain in... From (3) and (4)

$$f(x) = \frac{2}{\pi} + \sum_{n=1}^{\infty} \left[\frac{2}{n\pi} \sin \frac{n\pi x}{2} - \frac{2x}{n\pi} \cos \frac{n\pi x}{2} \right]$$

$$f(x) = \frac{2}{\pi} + \sum_{n=1}^{\infty} \left[\frac{2}{n\pi} \sin \frac{n\pi x}{2} - \frac{2x}{n\pi} \cos \frac{n\pi x}{2} \right]$$

*The Intelligence
of the Heart
is certain of nothing
but of the holiness of
the Heart's affections
and the truth
of Imagination -
What the imagination
sings is Beauty
must be truth*



23 January 2022

Rev. Steven Prätzman

Unitarian Universalist Church of Kent

The Intelligence of the Heart

Order of Service

January 23, 2022

And the day came when the risk to remain tight in the bud was more painful than the risk it took to blossom.

—Anaïs Nin

Gathering

Music for Gathering

Welcome

Rev. Steven Protzman, Minister

Chime

Prelude

Just Who We Are
by Hal Walker
Golden Tones Junior Choir

Setting our Intentions with Breathing and Centering

Lori Mirkin-McGee
Worship Associate

Opening Hymn

#1008 *When Our Heart is in a Holy Place*

Chalice Lighting

by Cheryl Block

Leader: In this sacred space

All: Let us be still in the quiet.

Leader: In this sacred space

All: Let our hearts open as a butterfly's wings.

Leader: In this sacred space

All: May the glow of this light shine within us.

Chalice Lighting Hymn

#362 *Rise Up, O Flame*

Holding One Another in Care and Compassion

A time of sharing our sorrows and losses, pastoral prayer,
and sharing our joys, wonder and awe

Music Meditation

Epilogo, by E. Granados
Clarinet Descant by Donald Smart
performed by Donald Smart and Vanessa Vesely

Reflecting

Time for All Ages	<i>Maybe</i> , by Kobi YamaDa Colleen Thoele, Director of Religious Education
Reading	<i>I Will Not Die an Unlived Life</i> by Dawna Markova
Hymn of Affirmation	#352 <i>Find a Stillness</i>
Reflection	<i>The Intelligence of the Heart</i> Rev. Steven Protzman
Invitation into Stillness	
Reflection Hymn	#391 <i>Voice Still and Small</i>

Returning

Offering	<i>More Waters Rising</i> by Sarah Lynch-Thomasson performed by Matt Meyer and Hal Walker
Extinguishing the Chalice	
We extinguish this flame, but not the light of truth, the warmth of community, or the fire of commitment. May we carry these in our hearts and minds until we are together again.	
Closing Hymn	#6 <i>Just as Long as I Have Breath</i>
Benediction	
Song of Blessing and Sending	<i>Go On Your Way in Peace</i> by Hal Walker Golden Tones Junior Choir
Virtual Coffee Hour	



Next Sunday: *The Bridge to Spring*
Led by Rev. Steven Protzman and Worship Associate Heidi Emhoff Wood

VISITORS - Welcome! We are glad you are here. Thank you for participating in worship with us today. We hope that you will find a spiritual home here and that you will be enriched in the liberal religious practice and heritage of Unitarian Universalism. This congregation is a member of the Unitarian Universalist Association. The members of this church take pride in the fact that we embrace people of all races, ethnicities, ages, creeds, sexual orientations, and abilities. In addition, we are a "Welcoming Congregation," which means that we have taken part in a special program, designed by the UUA, for congregations that see a need to become more inclusive towards bisexual, gay, lesbian, and/or transgender people. The principles and purposes of the UUA, which we "covenant to affirm and promote," can be found in the front of the hymnal, on the UUA website (www.uua.org), and on bookmarks available in the front entryway.

We are concerned for everyone's safety. If we need to evacuate the building for a fire, a drill or for any other reason, please follow the directions of the worship leader. Parents and guardians should look for their children on the grassy area behind the Annex and should not go to the classrooms. People with mobility concerns or other special needs should proceed to the entryway where evacuation assistance will be available.

OUR SUNDAY SERVICE is offered at 10 AM via Zoom. Visit kentuu.org for information to join the service.

Church Office: The church office is located in the Eldredge Annex (yellow house) next to the church building.

Office hours are: Monday -Friday 10 a.m. – 4:00 p.m.

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Facebook - www.facebook.com/uuchurchofkent

Visit our website.



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Commissioned Lay Minister (CLM)

Kathy Kerns

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When Our Heart is in a Holy Place

Chorus: When our heart is in a holy place,
When our heart is in a holy place
We are bless'd with love and amazing grace,
When our heart is in a holy place

When we trust the wisdom in each of us,
Ev'ry color ev'ry creed and kind,
And we see our faces in each other's eyes,
Then our heart is in a holy place.

(Chorus)

When we tell our story from deep inside,
And we listen with a loving mind,
And we hear our voices in each other's words,
Then our heart is in a holy place.

(Chorus)

When we share the silence of sacred space,
And the God of our Heart stirs within,
And we feel the power of each other's faith,
Then our heart is in a holy place.

(Chorus)

Rise Up, O Flame

Rise up, O flame,
by thy light glowing,
show to us beauty, vision and joy.

Find a Stillness

Find a stillness, hold a stillness, let the stillness carry me.
Find the silence, hold the silence, let the silence carry me.
In the spirit, by the spirit, with the spirit giving power,
I will find true harmony.

Seek the essence, hold the essence, let the essence carry me.
Let me flower, help me flower, watch me flower, carry me.
In the spirit, by the spirit, with the spirit giving power,
I will find true harmony.

Voice Still and Small

Voice still and small, deep inside all,
I hear you call, singing.
In dark and rain, sorrow and pain,
still you remain singing.
Calming my fears, quenching my tears,
through all the years, singing.

Just as Long as I Have Breath

Just as long as I have breath,
I must answer, "Yes," to life;
though with pain I made my way,
still with hope I meet each day.
If they ask what I did well,
tell them I said, "Yes," to life.

Just as long as vision lasts,
I must answer, "Yes," to truth;
in my dream and in my dark,
always: that elusive spark.
If they ask what I did well,
tell them I said, "Yes," to truth.

Just as long as my heart beats,
I must answer, "Yes," to love;
disappointment pierced me through,
still I kept on loving you.
If they ask what I did best,
tell them I said, "Yes," to love.