1. **Calculate alpha and beta** as follows:

Divide the year by 28 and the remainder (0 to 27) will be the alpha (red values on the Church Calendar Dial) used in step 3 below.

Divide the year by 19 and the remainder (0 to 18) will be beta (blue values on the Church Calendar Dial) used in step 5 below.

2. **Initialize the Church Calendar Dial and Hexaemeron gear** as follows:

Set the input (top middle of the Church Calendar Dial) to 'alpha.8 beta.1'

Set the output (bottom middle of the Hexaemeron gear) to 'K' (Kyriaki, 'Day of The Lord' = Sunday).

3. **Dial alpha** on the Church Calendar Dial. The Hexaemeron gear output will be the day of the week of Evangelismos (Annunciation).

4. **Initialize the Church Calendar Dial** as follows:

Set the input (top middle of the Church Calendar Dial) to 'alpha.8 beta.1' while holding the Hexaemeron gear so that it does not move.

Note. We do not have to perform step 4 if Evangelismos is on a Sunday, but doing so will not affect the computation.

5. **Dial beta** on the Church Calendar Dial. The date (black) above beta on the Church Calendar Dial is the Paschal Moon. The Hexaemeron gear output will be the day of the week of the Paschal Moon.

6. **Calculate Pascha.** Place a finger on the Hexaemeron gear output. This represents the Paschal Moon date.

Navigate counterclockwise with the finger without moving the gears while counting the dates until arriving at the next Kyriaki 'K' (Sunday).

This date is The Great and Holy Pascha of The Lord+

Note: The Paschal Moon always happens on Palm Sunday or Holy Week (7 day range). The Paschal Moon happens strictly between the resurrection of Lazarus and The Resurrection of The Lord.

The Orthodox Church Calendar does not depend upon the astronomical sun, astronomical moon, astronomical equinox, etc, but is a purely mathematical (Cyclical Model) for Liturgical Time.

Moreover these cycles can be shown to be Divinely Inspired (Holy Tradition) and witness the Genealogy and Christology of The Lord. The Church Calendar precisely repeats every 532 (19 × 28) Years.

Genealogy of The Lord in The Gospel According to Saint Matthew
(1904 Orthodox Patriarchal Text)

Abraham to David 14 = Menaion Cycle / 2 1 / 7 = .14 28 57		David to The Lord 28 = Menaion Cycle 1 / 7 = .14 28 57 (repeating)	
1	Ἀβραάμ	1	Δαυΐδ
2	Ἰσαάκ	2	Σολομών
3	Ἰακώβ	3	Ῥοβοάμ
4	Ἰούδας	4	Ἀβιά
5	Φαρές	5	Ἀσά
6	Ἐσρώμ	6	Ἰωσαφάτ
7	Ἀράμ	7	Ἰωράμ
8	Ἀμιναδάβ	8	Ὀζίας
9	Ναασσών	9	Ἰωάθαμ
10	Σαλμών	10	Ἄχαζ
11	Βοόζ	11	Ἐζεκίας
12	Ὠβήδ	12	Μανασσῆς
13	Ἰεσσαί	13	Ἀμών
14	Δαυΐδ	14	Ἰωσίας
		15	Ἰεχονίας
		16	Σαλαθιήλ
		17	Ζοροβάβελ
		18	Ἀβιούδ
		19	Ἐλιακείμ
		20	Ἀζώρ
		21	Σαδώκ
		22	Ἀχείμ
		23	Ἐλιούδ
		24	Ἐλεάζαρ
		25	Ματθάν
		26	Ἰακώβ
		27	Ἰωσήφ
		28	Ἰησοῦς

Genealogy of The Lord in The Gospel According to Saint Luke
(1904 Orthodox Patriarchal Text)
Abraham to The Lord
57 = 19 Year Metonic Cycle x 3
1 / 7 = .14 28 57 (repeating)

1	Ἀβραάμ	20	Ἐλιακείμ	39	Ἰωαννάν
2	Ἰσαάκ	21	Ἰωνᾶ	40	Ἰωδᾶ
3	Ἰακώβ	22	Ἰωσήφ	41	Ἰωσήχ
4	Ἰούδα	23	Ἰούδα	42	Σεμεΰ
5	Φαρές	24	Συμεών	43	Ματταθίου
6	Ἐσρώμ	25	Λευΐ	44	Μαάθ
7	Ἰωράμ	26	Ματθάτ	45	Ναγγαΐ
8	Ἀράμ	27	Ἰωρείμ	46	Ἐσλίμ
9	Ἀμιναδάβ	28	Ἐλιέζερ	47	Ναούμ
10	Ναασσών	29	Ἰωσῆ	48	Ἀμώς
11	Σαλμών	30	Ἥρ	49	Ματταθίου
12	Βοόζ	31	Ἐλμωδάμ	50	Ἰωσήφ
13	Ὠβήδ	32	Κωσάμ	51	Ἰωαννᾶ
14	Ἰεσσαί	33	Ἀδδί	52	Μελχί
15	Δαυΐδ	34	Μελχί	53	Λευΐ
16	Νάθαν	35	Νηρί	54	Ματθάν
17	Ματταθά	36	Σαλαθιήλ	55	Ἡλί
18	Μαϊνάν	37	Ζοροβάβελ	56	Ἰωσήφ
19	Μελεᾶ	38	Ῥησᾶ	57	Ἰησοῦς

e = 2.7182 81828 45904 52353 60287 47135 26624 97757 ..
The red digits below sum to 28 (Menaion Cycle)
The blue digits below sum to 19 (Paschal Moon Cycle)

2718281828459045235360287471352662497757247093 6999 Menaion Cycle
2718281828459045235360287471352662497757247093 6999 Metonic Cycle
2718281828459045235360287471352662497757247093 6999 Menaion Cycle
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2718281828459045235360287471352662497757247093 6999 Metonic Cycle

Year	α	β	A	PM	P
2016	0	2			
2017	1	3			
2018	2	4			
2019	3	5			
2020	4	6			
2021	5	7			
2022	6	8			
2023	7	9			
2024	8	10			
2025	9	11			
2026	10	12			
2027	11	13			
2028	12	14			
2029	13	15			
2030	14	16			
2031	15	17			
2032	16	18			
2033	17	0			
2034	18	1			
2035	19	2			
2036	20	3			
2037	21	4			
2038	22	5			
2039	23	6			
2040	24	7			
2041	25	8			
2042	26	9			
2043	27	10			
2044	0	11			
2045	1	12			
2046	2	13			
2047	3	14			
2048	4	15			
2049	5	16			
2050	6	17			