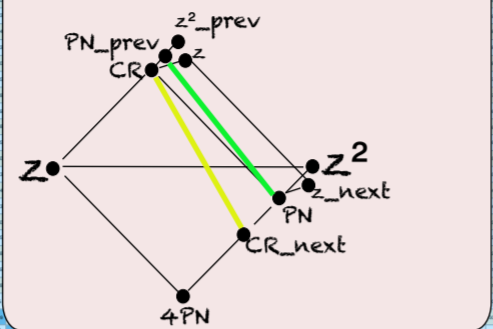


10 Parameters
ALL MPS follow:



$z = Mp = 2^p - 1 = x + y = \text{Mersenne Prime}$
 $z_{\text{next}} = \text{next } z \text{ value}$
 $z^2 = Mp^2 = \text{Mersenne Prime Square}$
 $z^2_{\text{prev}} = \text{previous}$
 $z^2_{\text{next}} = \text{next}$
 $PN = xz = \text{Perfect Number}$
 $PN_{\text{prev}} = \text{previous}$
 $4PN = \text{Perfect Number } \times 4$
 $CR = xy = \text{Complement Rectangle} = 2PN$
 $CR_{\text{next}} = \text{next}$
 $y = x - 1 = z_{\text{prev}}$

The GREEN Line = PN
 The YELLOW Line = CR

The BLACK Line from
 $z^2 = PN \times 1, 2, 3, 4 \dots$

This shows that $CR = 2PN$

Notice that the
LIGHT GRAY
 Line informs the
 next PN as the CR
circle + the PURPLE
circle add up to the
 PN as $(2CR + x = PN)$

5
 The first four Mersenne PRIME - Perfect Number Squares on the BIM