A math equation with black text

Description automatically generated with medium confidenceA mathematical equation with black letters

Description automatically generatedA black and white math equation

Description automatically generated with medium confidenceA black and white math equation

Description automatically generatedA math equation with black text

Description automatically generated

A math equation written on a white board

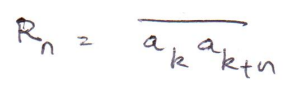
Description automatically generatedA close-up of a mathematical equation

Description automatically generated

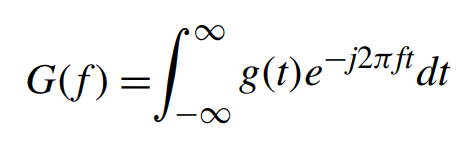
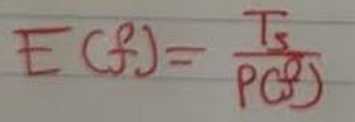
A close-up of a white background

Description automatically generated

A close-up of a math problem

Description automatically generatedA close-up of a handwritten text

Description automatically generated

A whiteboard with writing on it

Description automatically generated

|  |  |  |
| --- | --- | --- |
| Polar |  | BW = 2Rb --- 4x Nyquist rate (for half width)  BW = Rb (for full pulse width)  Most efficient, has DC comp  Can use Manchester to remove DC comp |
| ON-OFF |  | Requires twice polar pwr |
| Bipolar |  | DC Null, BW = Rb (2x Nyq), Has single bit error det  Requires twice pwr of polar |

A table with math equations

Description automatically generatedA white paper with black text and numbers

Description automatically generated

A math equation written on a white surface

Description automatically generated ON-OFF