

IS 310-21

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THE UNIVERSITY OF CHICAGO

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$$f(x) = \frac{1}{2}x^2 - x + 1, \quad g(x) = \frac{1}{2}x^2 + x + 1, \quad h(x) = \frac{1}{2}x^2 - 2x + 2, \quad i(x) = \frac{1}{2}x^2 + 2x + 2, \quad j(x) = \frac{1}{2}x^2 - 3x + 3, \quad k(x) = \frac{1}{2}x^2 + 3x + 3, \quad l(x) = \frac{1}{2}x^2 - 4x + 4, \quad m(x) = \frac{1}{2}x^2 + 4x + 4, \quad n(x) = \frac{1}{2}x^2 - 5x + 5, \quad o(x) = \frac{1}{2}x^2 + 5x + 5, \quad p(x) = \frac{1}{2}x^2 - 6x + 6, \quad q(x) = \frac{1}{2}x^2 + 6x + 6, \quad r(x) = \frac{1}{2}x^2 - 7x + 7, \quad s(x) = \frac{1}{2}x^2 + 7x + 7, \quad t(x) = \frac{1}{2}x^2 - 8x + 8, \quad u(x) = \frac{1}{2}x^2 + 8x + 8, \quad v(x) = \frac{1}{2}x^2 - 9x + 9, \quad w(x) = \frac{1}{2}x^2 + 9x + 9, \quad x(x) = \frac{1}{2}x^2 - 10x + 10, \quad y(x) = \frac{1}{2}x^2 + 10x + 10, \quad z(x) = \frac{1}{2}x^2 - 11x + 11, \quad \alpha(x) = \frac{1}{2}x^2 + 11x + 11, \quad \beta(x) = \frac{1}{2}x^2 - 12x + 12, \quad \gamma(x) = \frac{1}{2}x^2 + 12x + 12, \quad \delta(x) = \frac{1}{2}x^2 - 13x + 13, \quad \epsilon(x) = \frac{1}{2}x^2 + 13x + 13, \quad \zeta(x) = \frac{1}{2}x^2 - 14x + 14, \quad \eta(x) = \frac{1}{2}x^2 + 14x + 14, \quad \theta(x) = \frac{1}{2}x^2 - 15x + 15, \quad \iota(x) = \frac{1}{2}x^2 + 15x + 15, \quad \kappa(x) = \frac{1}{2}x^2 - 16x + 16, \quad \lambda(x) = \frac{1}{2}x^2 + 16x + 16, \quad \mu(x) = \frac{1}{2}x^2 - 17x + 17, \quad \nu(x) = \frac{1}{2}x^2 + 17x + 17, \quad \xi(x) = \frac{1}{2}x^2 - 18x + 18, \quad \omicron(x) = \frac{1}{2}x^2 + 18x + 18, \quad \pi(x) = \frac{1}{2}x^2 - 19x + 19, \quad \rho(x) = \frac{1}{2}x^2 + 19x + 19, \quad \sigma(x) = \frac{1}{2}x^2 - 20x + 20, \quad \tau(x) = \frac{1}{2}x^2 + 20x + 20, \quad \upsilon(x) = \frac{1}{2}x^2 - 21x + 21, \quad \phi(x) = \frac{1}{2}x^2 + 21x + 21, \quad \chi(x) = \frac{1}{2}x^2 - 22x + 22, \quad \psi(x) = \frac{1}{2}x^2 + 22x + 22, \quad \omega(x) = \frac{1}{2}x^2 - 23x + 23, \quad \varpi(x) = \frac{1}{2}x^2 + 23x + 23, \quad \varphi(x) = \frac{1}{2}x^2 - 24x + 24, \quad \varsigma(x) = \frac{1}{2}x^2 + 24x + 24, \quad \zeta(x) = \frac{1}{2}x^2 - 25x + 25, \quad \eta(x) = \frac{1}{2}x^2 + 25x + 25, \quad \theta(x) = \frac{1}{2}x^2 - 26x + 26, \quad \iota(x) = \frac{1}{2}x^2 + 26x + 26, \quad \kappa(x) = \frac{1}{2}x^2 - 27x + 27, \quad \lambda(x) = \frac{1}{2}x^2 + 27x + 27, \quad \mu(x) = \frac{1}{2}x^2 - 28x + 28, \quad \nu(x) = \frac{1}{2}x^2 + 28x + 28, \quad \xi(x) = \frac{1}{2}x^2 - 29x + 29, \quad \omicron(x) = \frac{1}{2}x^2 + 29x + 29, \quad \pi(x) = \frac{1}{2}x^2 - 30x + 30, \quad \rho(x) = \frac{1}{2}x^2 + 30x + 30, \quad \sigma(x) = \frac{1}{2}x^2 - 31x + 31, \quad \tau(x) = \frac{1}{2}x^2 + 31x + 31, \quad \upsilon(x) = \frac{1}{2}x^2 - 32x + 32, \quad \phi(x) = \frac{1}{2}x^2 + 32x + 32, \quad \chi(x) = \frac{1}{2}x^2 - 33x + 33, \quad \psi(x) = \frac{1}{2}x^2 + 33x + 33, \quad \omega(x) = \frac{1}{2}x^2 - 34x + 34, \quad \varpi(x) = \frac{1}{2}x^2 + 34x + 34, \quad \varphi(x) = \frac{1}{2}x^2 - 35x + 35, \quad \varsigma(x) = \frac{1}{2}x^2 + 35x + 35, \quad \zeta(x) = \frac{1}{2}x^2 - 36x + 36, \quad \eta(x) = \frac{1}{2}x^2 + 36x + 36, \quad \theta(x) = \frac{1}{2}x^2 - 37x + 37, \quad \iota(x) = \frac{1}{2}x^2 + 37x + 37, \quad \kappa(x) = \frac{1}{2}x^2 - 38x + 38, \quad \lambda(x) = \frac{1}{2}x^2 + 38x + 38, \quad \mu(x) = \frac{1}{2}x^2 - 39x + 39, \quad \nu(x) = \frac{1}{2}x^2 + 39x + 39, \quad \xi(x) = \frac{1}{2}x^2 - 40x + 40, \quad \omicron(x) = \frac{1}{2}x^2 + 40x + 40, \quad \pi(x) = \frac{1}{2}x^2 - 41x + 41, \quad \rho(x) = \frac{1}{2}x^2 + 41x + 41, \quad \sigma(x) = \frac{1}{2}x^2 - 42x + 42, \quad \tau(x) = \frac{1}{2}x^2 + 42x + 42, \quad \upsilon(x) = \frac{1}{2}x^2 - 43x + 43, \quad \phi(x) = \frac{1}{2}x^2 + 43x + 43, \quad \chi(x) = \frac{1}{2}x^2 - 44x + 44, \quad \psi(x) = \frac{1}{2}x^2 + 44x + 44, \quad \omega(x) = \frac{1}{2}x^2 - 45x + 45, \quad \varpi(x) = \frac{1}{2}x^2 + 45x + 45, \quad \varphi(x) = \frac{1}{2}x^2 - 46x + 46, \quad \varsigma(x) = \frac{1}{2}x^2 + 46x + 46, \quad \zeta(x) = \frac{1}{2}x^2 - 47x + 47, \quad \eta(x) = \frac{1}{2}x^2 + 47x + 47, \quad \theta(x) = \frac{1}{2}x^2 - 48x + 48, \quad \iota(x) = \frac{1}{2}x^2 + 48x + 48, \quad \kappa(x) = \frac{1}{2}x^2 - 49x + 49, \quad \lambda(x) = \frac{1}{2}x^2 + 49x + 49, \quad \mu(x) = \frac{1}{2}x^2 - 50x + 50, \quad \nu(x) = \frac{1}{2}x^2 + 50x + 50, \quad \xi(x) = \frac{1}{2}x^2 - 51x + 51, \quad \omicron(x) = \frac{1}{2}x^2 + 51x + 51, \quad \pi(x) = \frac{1}{2}x^2 - 52x + 52, \quad \rho(x) = \frac{1}{2}x^2 + 52x + 52, \quad \sigma(x) = \frac{1}{2}x^2 - 53x + 53, \quad \tau(x) = \frac{1}{2}x^2 + 53x + 53, \quad \upsilon(x) = \frac{1}{2}x^2 - 54x + 54, \quad \phi(x) = \frac{1}{2}x^2 + 54x + 54, \quad \chi(x) = \frac{1}{2}x^2 - 55x + 55, \quad \psi(x) = \frac{1}{2}x^2 + 55x + 55, \quad \omega(x) = \frac{1}{2}x^2 - 56x + 56, \quad \varpi(x) = \frac{1}{2}x^2 + 56x + 56, \quad \varphi(x) = \frac{1}{2}x^2 - 57x + 57, \quad \varsigma(x) = \frac{1}{2}x^2 + 57x + 57, \quad \zeta(x) = \frac{1}{2}x^2 - 58x + 58, \quad \eta(x) = \frac{1}{2}x^2 + 58x + 58, \quad \theta(x) = \frac{1}{2}x^2 - 59x + 59, \quad \iota(x) = \frac{1}{2}x^2 + 59x + 59, \quad \kappa(x) = \frac{1}{2}x^2 - 60x + 60, \quad \lambda(x) = \frac{1}{2}x^2 + 60x + 60, \quad \mu(x) = \frac{1}{2}x^2 - 61x + 61, \quad \nu(x) = \frac{1}{2}x^2 + 61x + 61, \quad \xi(x) = \frac{1}{2}x^2 - 62x + 62, \quad \omicron(x) = \frac{1}{2}x^2 + 62x + 62, \quad \pi(x) = \frac{1}{2}x^2 - 63x + 63, \quad \rho(x) = \frac{1}{2}x^2 + 63x + 63, \quad \sigma(x) = \frac{1}{2}x^2 - 64x + 64, \quad \tau(x) = \frac{1}{2}x^2 + 64x + 64, \quad \upsilon(x) = \frac{1}{2}x^2 - 65x + 65, \quad \phi(x) = \frac{1}{2}x^2 + 65x + 65, \quad \chi(x) = \frac{1}{2}x^2 - 66x + 66, \quad \psi(x) = \frac{1}{2}x^2 + 66x + 66, \quad \omega(x) = \frac{1}{2}x^2 - 67x + 67, \quad \varpi(x) = \frac{1}{2}x^2 + 67x + 67, \quad \varphi(x) = \frac{1}{2}x^2 - 68x + 68, \quad \varsigma(x) = \frac{1}{2}x^2 + 68x + 68, \quad \zeta(x) = \frac{1}{2}x^2 - 69x + 69, \quad \eta(x) = \frac{1}{2}x^2 + 69x + 69, \quad \theta(x) = \frac{1}{2}x^2 - 70x + 70, \quad \iota(x) = \frac{1}{2}x^2 + 70x + 70, \quad \kappa(x) = \frac{1}{2}x^2 - 71x + 71, \quad \lambda(x) = \frac{1}{2}x^2 + 71x + 71, \quad \mu(x) = \frac{1}{2}x^2 - 72x + 72, \quad \nu(x) = \frac{1}{2}x^2 + 72x + 72, \quad \xi(x) = \frac{1}{2}x^2 - 73x + 73, \quad \omicron(x) = \frac{1}{2}x^2 + 73x + 73, \quad \pi(x) = \frac{1}{2}x^2 - 74x + 74, \quad \rho(x) = \frac{1}{2}x^2 + 74x + 74, \quad \sigma(x) = \frac{1}{2}x^2 - 75x + 75, \quad \tau(x) = \frac{1}{2}x^2 + 75x + 75, \quad \upsilon(x) = \frac{1}{2}x^2 - 76x + 76, \quad \phi(x) = \frac{1}{2}x^2 + 76x + 76, \quad \chi(x) = \frac{$$

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$$x_{\text{max}} = x_{\text{min}} + 2^{\text{max_bits} - 1} - 1$$

1. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

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[Faint, illegible handwritten notes]

1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them. The list includes names such as "Mr. J. H. Smith", "Mr. W. H. Jones", and "Mr. R. H. Brown".

1. *Chlorophyll a* (Chl *a*)

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1. The first step in the process of identifying a problem is to recognize that a problem exists. This involves gathering information about the situation and identifying the specific issue that needs to be addressed.

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