Concept Question 7-10: How can we get a useful solution to an underdetermined system of equations?

By computing the solution that minimizes a cost functional, such as $\Sigma |x[n]|$, $\Sigma x^2[n]$, or LASSO (Eq. (7.122)).

$$\Lambda = \frac{1}{2} \underbrace{||\mathbf{y} - \mathbf{A}_{w} \mathbf{z}||_{2}^{2}}_{\text{fidelity}} + \underbrace{\lambda ||\mathbf{z}||_{1}}_{\text{sparsity}}, \tag{7.122}$$