70. We use $\mathcal{E}_2 = -M\, di_1/dt \approx M|\Delta i/\Delta t|$ to find M:

$$M = \left|\frac{\mathcal{E}}{\Delta i_1/\Delta t}\right| = \frac{30 \times 10^3\,\text{V}}{6.0\,\text{A}/(2.5 \times 10^{-3}\,\text{s})} = 13\ \text{H}\ .$$