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i₁, i₂, and i₃ in the circuit shown in Fig. 2.72

given that i_a = 2 amps, i_b = 3 amps, and i_c = 4 amps.

Solution At node a, $i_a + i_2 - i_b = 0$ or $i_2 = i_a - i_b = 2 - 3 = -1$ amp
At node b, $i_b + i_1 - i_c = 0$ or $i_1 = i_c - i_b = 4 - 3 = 1$ amp

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While constructing the circuit, rotate L1

counterclockwise through

270° so that current $i(t)$

enters pin 1 of L1 and set

IC = 10 for L1. After saving

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