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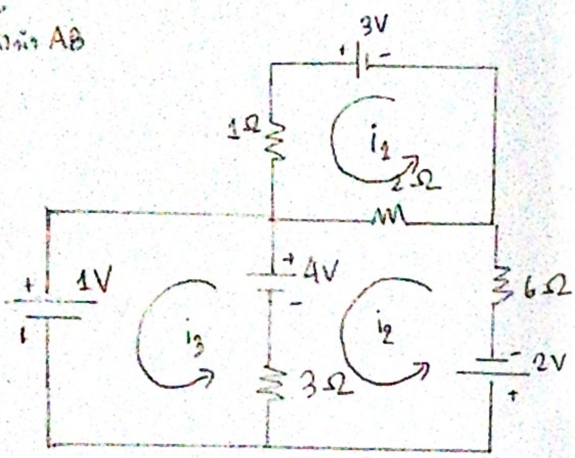
$\Delta V = \ell v B \sin\theta$

$\Delta V = (0.1)(20)(\frac{1}{2}) \sin 90^\circ$ (sin 90° crossed out, written 1)

$\Delta V = 1\ V$

↙ แห่งจ่ายตัวนำ AB



Loop i_1 ; $-3 + 1(i_1) + 2(i_1 - i_2) = 0 \rightarrow 3i_1 - 2i_2 = 3$ — (1)

Loop i_2 ; $4 + 3(i_2 - i_3) + 2 + 6i_2 = 0 \rightarrow 9i_2 - 3i_3 = -6$ — (2)

Loop i_3 ; $1 + 3(i_3 - i_2) - 4 = 0 \rightarrow -3i_2 + 3i_3 = 3$ — (3)

แก้สมการได้ $i_1 = \frac{2}{3} = 0.67\ A$ $i_2 = -\frac{1}{2} = -0.5\ A$ $i_3 = \frac{1}{2} = 0.5\ A$

$\therefore$ กระแสไหลผ่าน $2\,\Omega = i_2 + i_1 = 0.67 + 0.5 = 1.17\ A$