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1.
$$it_{1/2}t_{iop}$$
 $V_{i}^{P} = 0 - 0.0s(-6 + 0.101) = 0.3$
 $Z_{i}^{P} = -6 + 0.11 = -6$
 $V_{i} = 0 + \frac{1}{2}(-9.0s(-6+0) - 0.0s(-6+0.3^{2}) = 0.298$
 $Z_{i} = -6 + \frac{1}{2}(0 + 0.3) = -5.85$

2. $i\int_{1/2}^{1/2}t_{iop}$
 $V_{2}^{P} = 0.289 \cdot 0.05(-9.85 + 0.289^{2}) = 0.977$
 $Z_{2}^{P} = -5.65 + 0.298 = -5.55$
 $V_{2} = 0.289 + \frac{1}{2}(-0.0s(-9.85 + 0.289^{2}) - 0.05(-5.55 + 0.577^{2})$
 $V_{2} = 0.563$
 $Z_{2} = -5.85 + \frac{1}{2}(-0.298 + 0.577^{2}) = -5.917$

3. $i\int_{1/2}^{1/2}t_{iop}$
 $V_{3}^{P} = 0.563 \cdot 0.05(-5.417 + 0.563^{2}) = 0.818$
 $Z_{3}^{P} = -5.417 + 0.563 = -4.854$
 $V_{3} = 0.563 + \frac{1}{2}(-0.05(-5.417 + 0.563^{2}) - 4.859 + 0.918^{2})$
 $V_{3} = 0.795$
 $Z_{3} = -5.417 + \frac{1}{2}(0.818 + 0.563) = -9.74$

Chose lineagh

