

INDUSTRIAL ELECTRONICS N4 TEST 2 MEMO
QUESTION 1

Short circuit V_1

$$R_{TA} = \frac{R_2 R_L}{R_2 + R_L} + R_1$$

$$= \frac{8 \times 10}{8 + 10} + 5$$

$$= 9,444 \, \Omega \checkmark \checkmark$$

$$I_1 = \frac{V_1}{R_{TA}} = \frac{8}{9,444}$$

$$= 0,847 \, A \checkmark$$

$$I_{LA} = \frac{R_2}{R_2 + R_L} \times I_1$$

$$= \frac{8}{8 + 10} \times 0,847$$

$$= 0,376 \, A \checkmark \checkmark$$

$$I_{LT} = I_{TA} + I_{TB}$$

$$= 0,376 + 0,294$$

$$= 0,67 \, A \checkmark$$

Short circuit V_2

$$R_{TB} = \frac{R_1 R_L}{R_1 + R_L} + R_2$$

$$= \frac{5 \times 10}{5 + 10} + 8$$

$$= 11,333 \, \Omega \checkmark \checkmark$$

$$I_2 = \frac{V_2}{R_{TB}} = \frac{10}{11,333}$$

$$= 0,882 \, A \checkmark$$

$$I_{LB} = \frac{R_1}{R_1 + R_L} \times I_2$$

$$= \frac{5}{5 + 10} \times 0,882$$

$$= 0,294 \, A \checkmark \checkmark$$

[10]

Memorandum November 2011 For Industrial Electronics

B Lingard



Memorandum November 2011 For Industrial Electronics:

Memorandum November 2011 For Industrial Electronics Book Review: Unveiling the Power of Words

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