Answer on question #59313, Physics / Electric Circuits

Question A 0.96H coil carries a current of 8.0A. Calculate the energy stored in it
30.7J
45.3J
62.6J
27.3J

Solution Stored energy is

$$E = \frac{1}{2}LI^2 = \frac{1}{2} \cdot 0.96 \cdot 8^2 = 30.72\,J$$