

PLTW Digital Electronics - Final Review Set 1, PLTW Digital Electronics - Final Review Set 2, PLTW Digital Electronics - Final Review Set 3, Digital Electronics - PLTW Review Test

If an integrated circuit has been damaged and you smell smoke, you should_____.

Turn the power off for a few minutes before pulling out the damaged integrated circuit.

In scientific notation, which prefixes are used for values smaller than a whole value?

Micro, nano, milli

What is the value of the resistor with colors blue, grey, red , gold ?

6.8 K Ω $\pm 5\%$

What are the color bands for a 390 Ω (± 10) resistor?

ORANGE-WHITE-BROWN-SILVER

In a parallel circuit, you measure 1.5 mAmps flowing through a 600 Ω resistor.

What is the voltage drop across the resistor? Use Ohms law.

900 m Volts

What is the decimal equivalent to the binary number 0101102?

22 power of 10

In the eight-bit binary number shown below, which bit is the Least Significant Bit (LSB)?

b7b6 b5 b4 b3 b2 b1 b0

1 0 1 1 0 1 0 1

B 0 (zero)

Which of the following is a rule of Boolean algebra?

1. $AA \cdot 0 = A$

2. $AB \cdot 1 = 1$

3. $A \cdot A = A$

4. $AC \cdot A = 1$

$A \cdot A = A$

What is the binary equivalent to the decimal number 1310?

1101

What is the decimal equivalent to the binary number 0101102?

22 base 10

What is the binary equivalent to the hexadecimal number CH

11002

Which of the following equations is the un-simplified Sum-Of-Products equation for the truth table shown below with F as the Output?

X Y Z F

0 0 0 0

0 0 1 1

Pltw Digital Electronics 2014 Exam

Roger L. Tokheim



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Engineering in Pre-college Settings Şenay Purzer, Johannes Strobel, Monica E. Cardella, 2014 In science technology engineering and mathematics STEM education in pre college engineering is not the silent e anymore There is an accelerated interest in teaching engineering in all grade levels Structured engineering programs are emerging in schools as well as in out of school settings Over the last ten years the number of states in the US including engineering in their K 12 standards has tripled and this trend will continue to grow with the adoption of the Next Generation Science Standards The interest in pre college engineering education stems from three different motivations First from a workforce pipeline or pathway perspective researchers and practitioners are interested in understanding precursors influential and motivational factors and the progression of engineering thinking Second from a general societal perspective technological literacy and understanding of the role of engineering and technology is becoming increasingly important for the general populace and it is more imperative to foster this understanding from a younger age Third from a STEM integration and education perspective engineering processes are used as a context to teach science and math concepts This book addresses each of these motivations and the diverse means used to engage with them Designed to be a source of background and inspiration for researchers and practitioners alike this volume includes contributions on policy synthesis studies and research studies to catalyze and inform current efforts to improve pre college engineering education The book explores teacher learning and practices as well as how student learning occurs in both formal settings such as classrooms and informal settings such as homes and museums This volume also includes chapters on assessing design and creativity

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