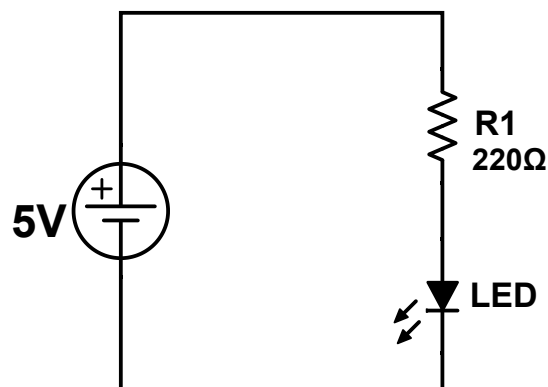
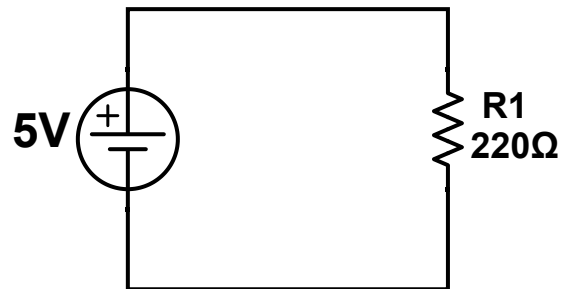
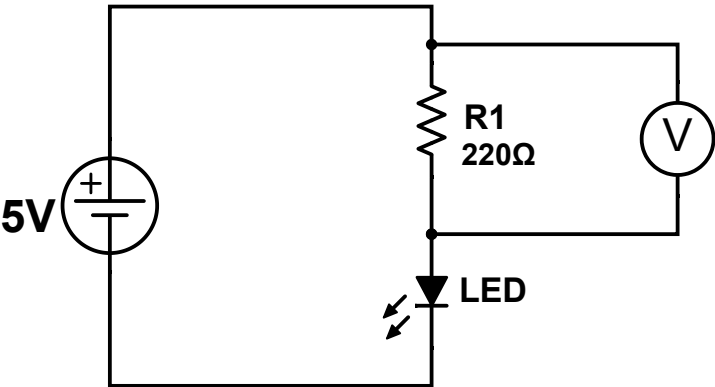


ELT1010 Circuits Workbook

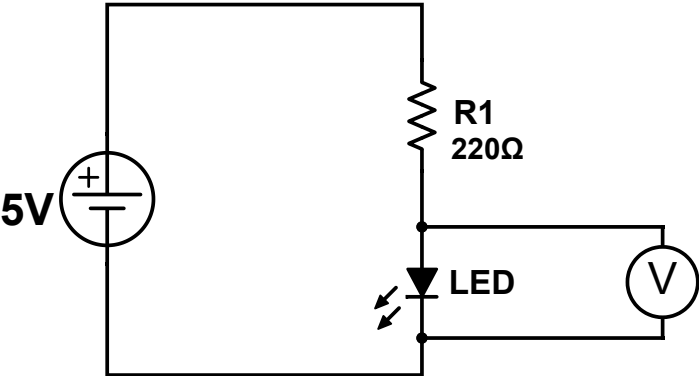
Lesson 2



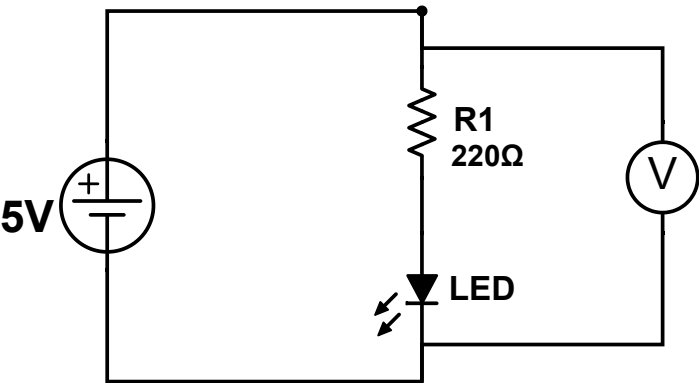
Lesson 3



V_{R1}	
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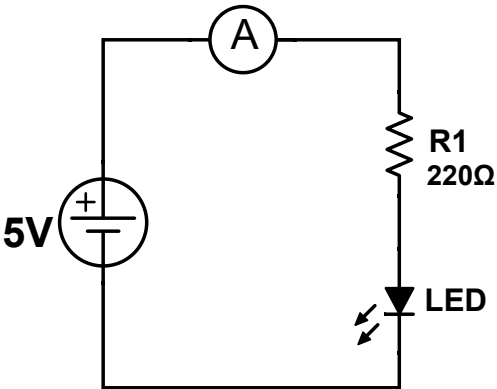


V_{LED}	
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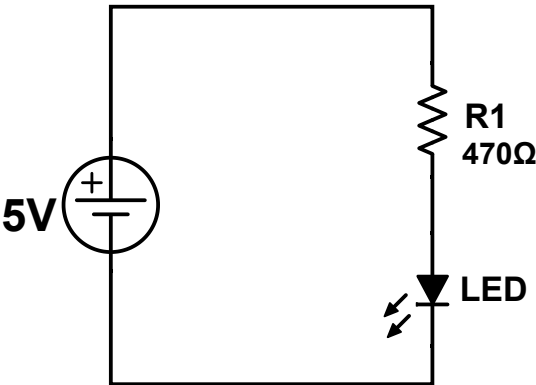


V_{tot}	
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What is the relationship between V_{R1} , V_{LED} , and V_{tot} ?



I_{tot}	
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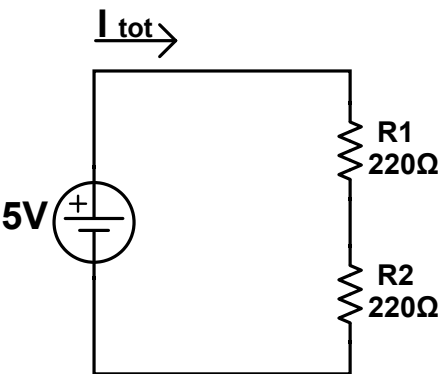


V_{R1}		I_{tot}	
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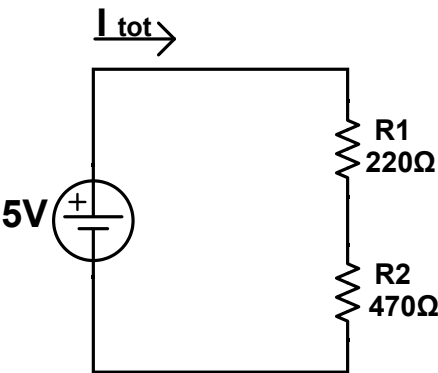
Ohm's Law: $I = V/R$

What current would we expect if R1 was 10kΩ?

Lesson 4

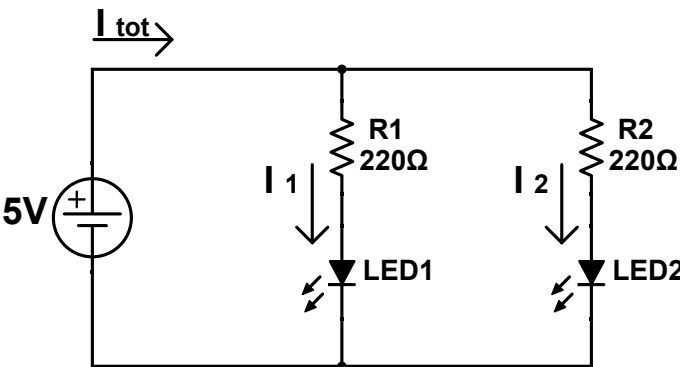


I_{tot} (meas.)		R_{tot} (calc.)			
V_{R1} (meas.)		V_{R2} (meas.)		$V_{R1} + V_{R2}$	



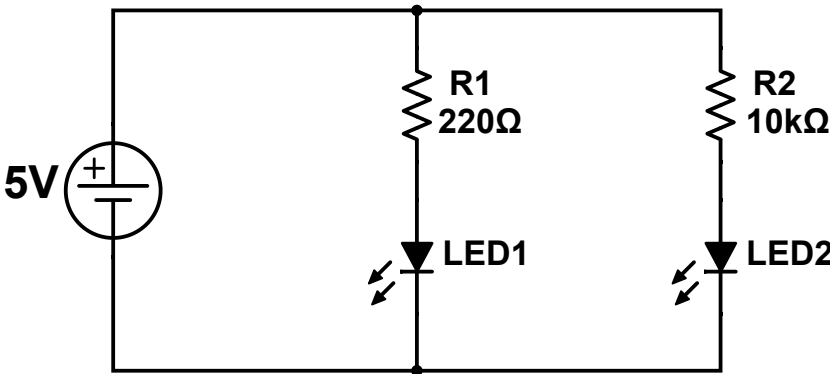
R_{tot} (calc.)		I_{tot} (calc.)		I_{tot} (meas.)	
V_{R1} (meas.)		V_{R2} (meas.)		$V_{R1} + V_{R2}$	

Lesson 5



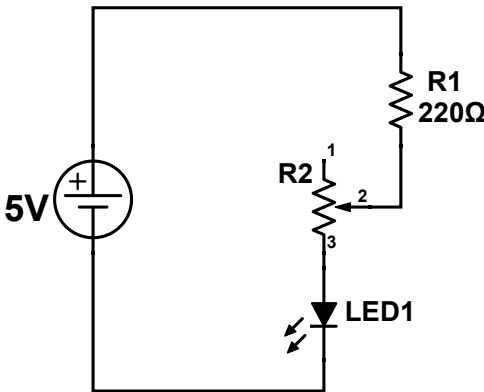
V _{R1} (meas.)		I ₁ (calc.)		I ₁ (meas.)	
V _{R1} (meas.)		I ₁ (calc.)		I ₁ (meas.)	
I _{tot} (meas.)					

What is the relationship between I₁, I₂, and I_{tot}?

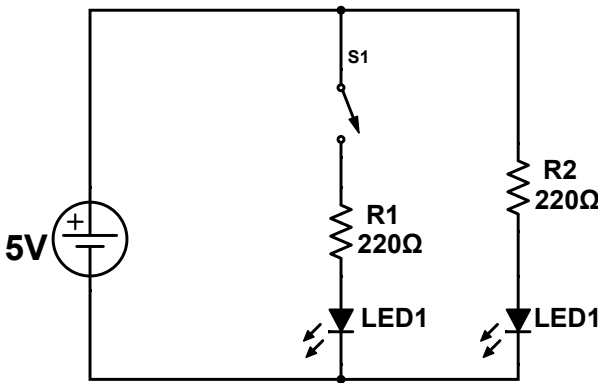
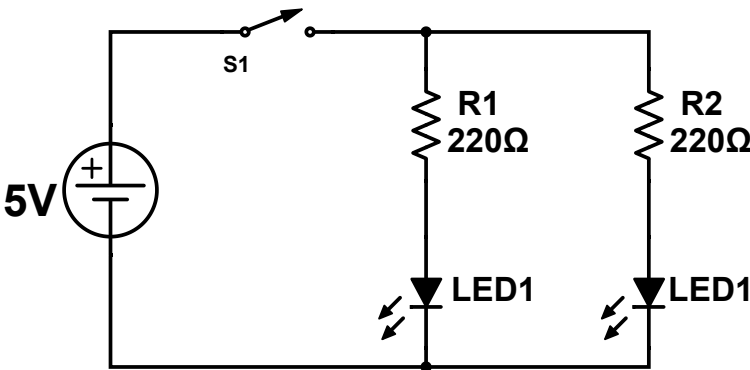


V _{R1} (meas.)		I ₁ (calc.)		I ₁ (meas.)	
V _{R1} (meas.)		I ₁ (calc.)		I ₁ (meas.)	
I _{tot} (calc.)		I _{tot} (meas.)			

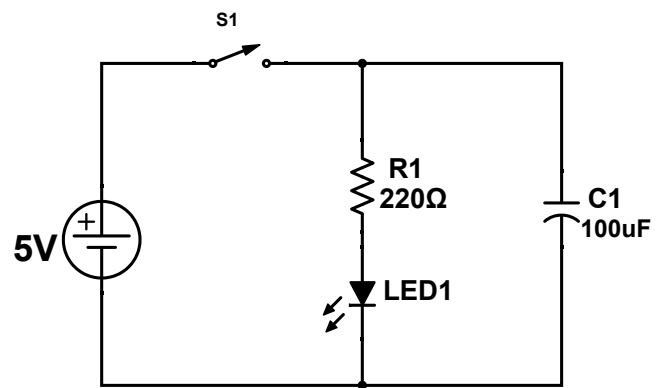
Lesson 6



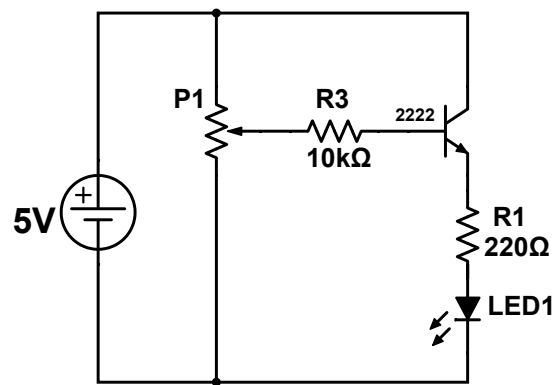
Lesson 7



Lesson 8



Lesson 9



V_{eb} to activate (meas.)	
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