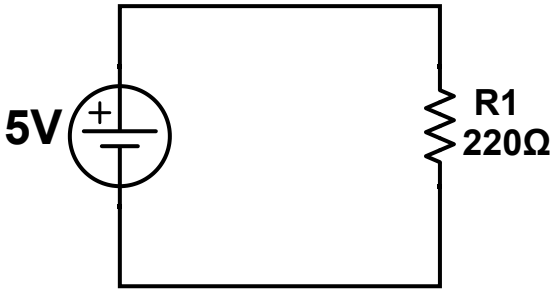
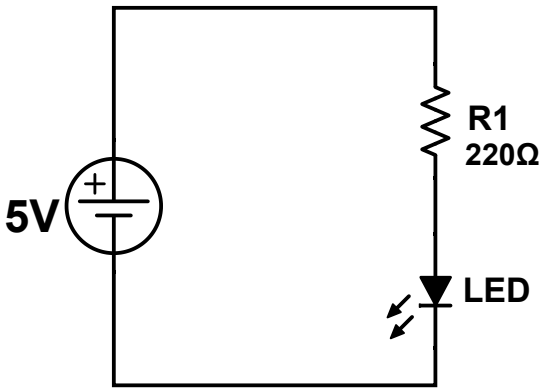
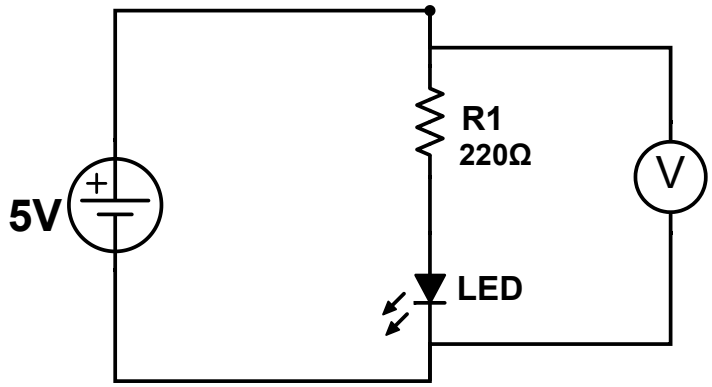
ELT1010 Circuits Workbook

Lesson 2

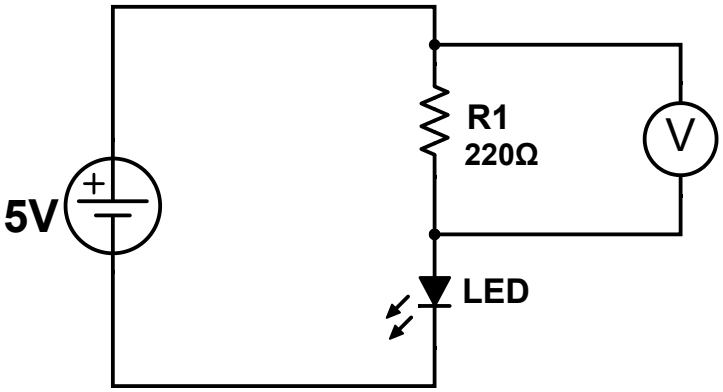




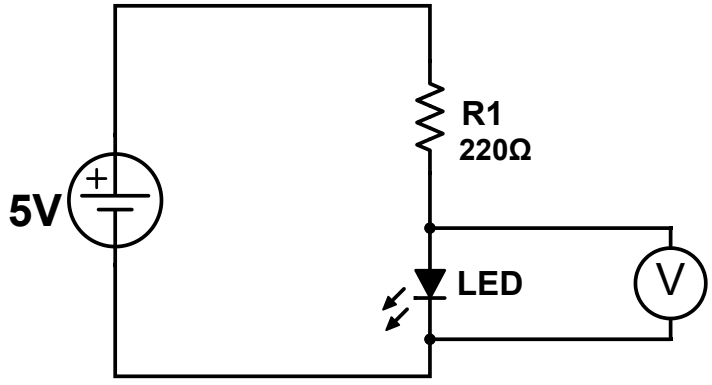
Lesson 3



V_{tot}	

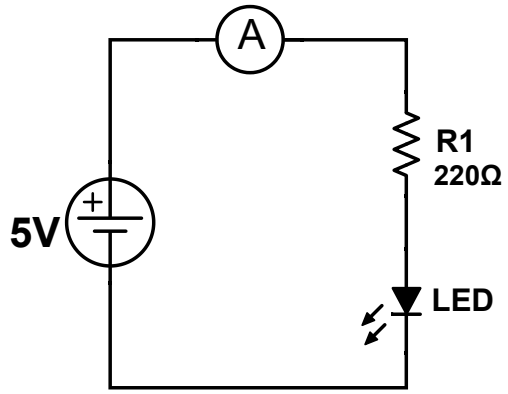


V_{R1}	

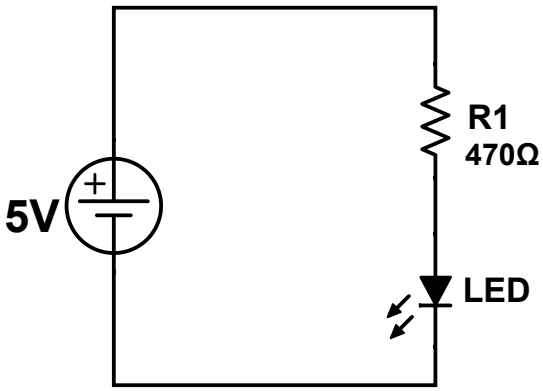


V_{LED}	

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



I_{tot}	

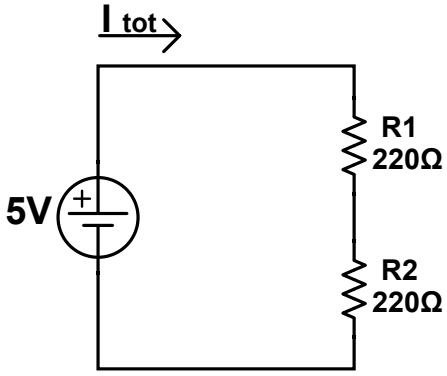


V_{R1}		I_{tot}	

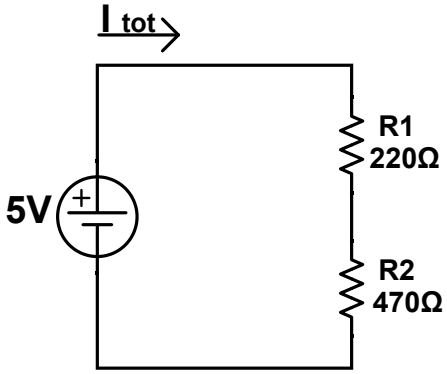
> Ohm's Law: I=V/R

What current would we expect if R1 was 10kΩ?

Lesson 4

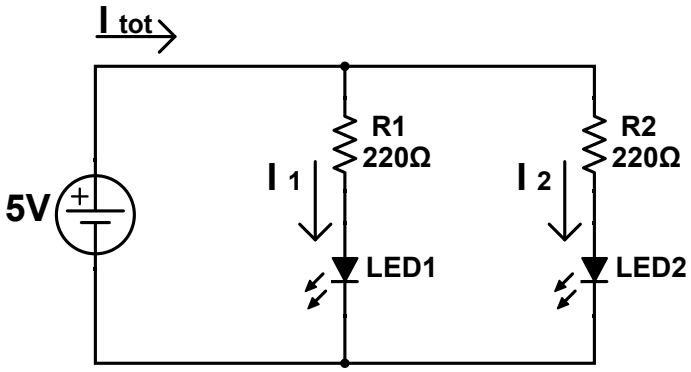


I_{tot} (meas.)		R_{tot} (calc.)			
V_{R1} (meas.)		V_{R2} (meas.)		$V_{R1}+V_{R2}$	



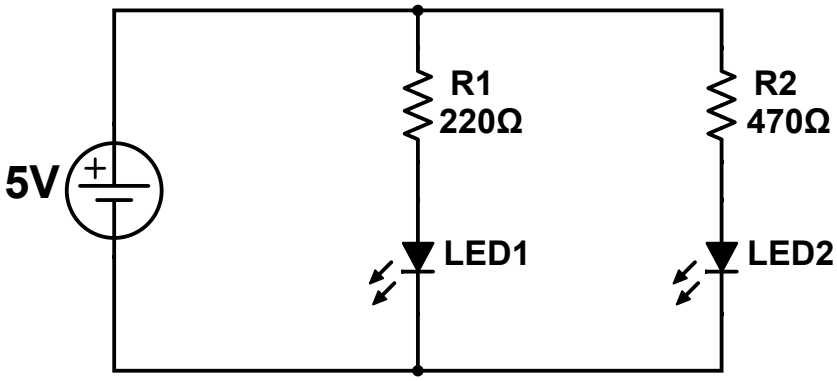
R_{tot} (calc.)		I_{tot} (calc.)		I_{tot} (meas.)	
V_{R1} (meas.)		V_{R2} (meas.)		$V_{R1}+V_{R2}$	

Lesson 5



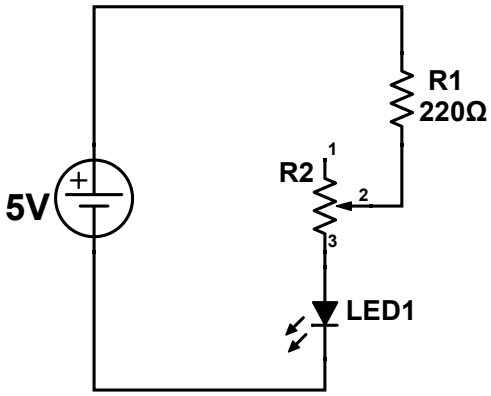
V_{R1} (meas.)		**I_1 (calc.)**		**I_1 (meas.)**	
V_{R2} (meas.)		**I_2 (calc.)**		**I_2 (meas.)**	
I_{tot} (meas.)					

What is the relationship between I_1, I_2, and I_{tot}?

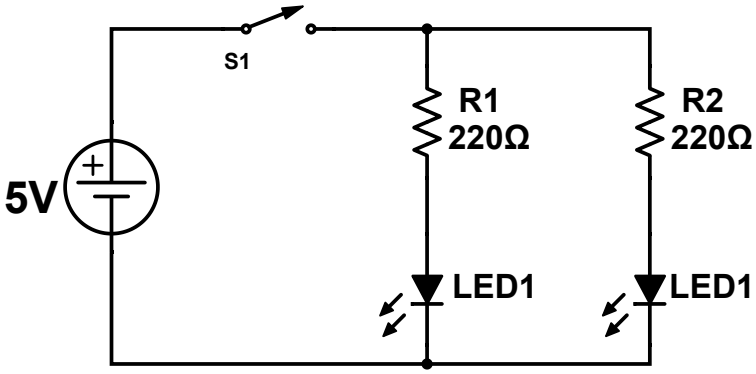


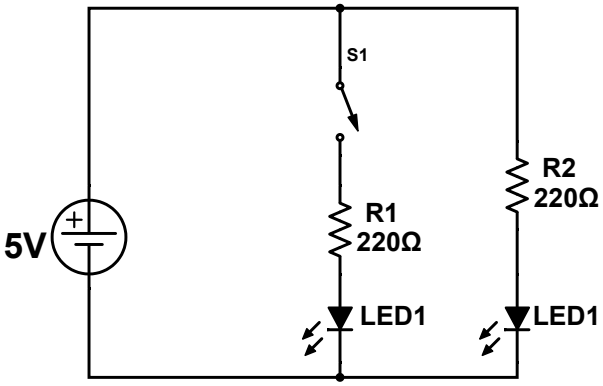
V_{R1} (meas.)		**I_1 (calc.)**		**I_1 (meas.)**	
V_{R2} (meas.)		**I_2 (calc.)**		**I_2 (meas.)**	
I_{tot} (calc.)		**I_{tot} (meas.)**			

Lesson 6

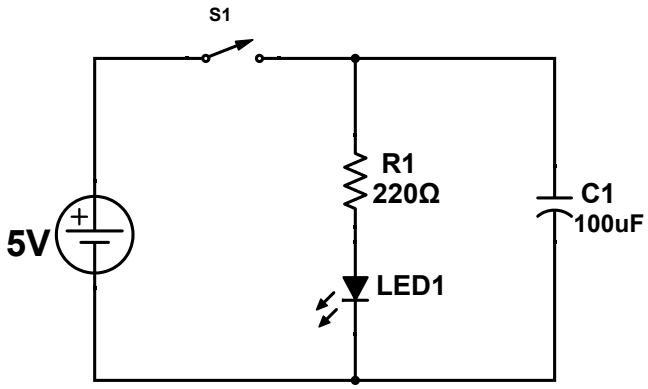


Lesson 7

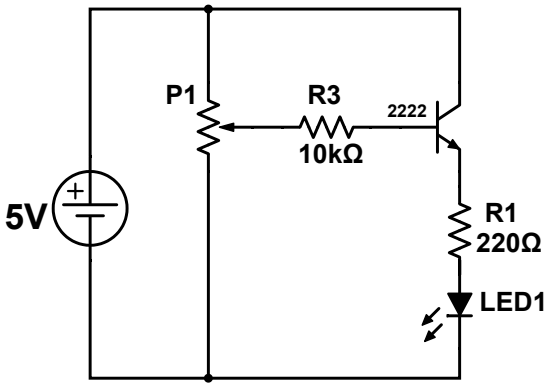




Lesson 8



Lesson 9



V_{eb} to activate (meas.)	