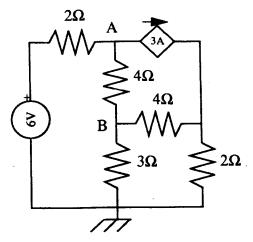
Name: Key

Quiz 2

Consider the following circuit:



1. Find the potential at points A and B if the current source is suppressed.

60 arrows
$$2+4+(3||(2+4))=8.2$$

 $A=6V-\frac{2}{8}\cdot 6V=+4.5V$
 $B=6V-\frac{6}{8}\cdot 6V=+1.5V$

2. Find the potential at points A and B if the voltage source is suppressed. (Hint use symmetry!)

Now B = OV since current is balance Q:

Al so easy to see that Botton mesh

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is 1/2 resistance of top mesh => 2.B

A in top 2A in bottom

=> A = -4V

3. What is the total potential from both sources at A and B?