

In the following voltage divider circuits or, as they are otherwise called, potential divider circuits, find the missing quantity in each practice question.





(11) A potential divider circuit is shown below.Determine the output voltage when switch S is open and then when switch S is closed.



Answers:

(1) $V_1 = 6V V_2 = 6V$	(2) V ₁ =4V V ₂ =8V	(3) V ₁ =2V V ₂ =4V	(4) V ₁ =4V V ₂ =8
(5) V ₁ =7.5V V ₂ =4.5V	(6) V ₁ =6V V ₂ = 6V	(7) V ₂ =12 V _S =18V	(8) V ₂ =10V
(9) R = 36Ω V _s =8V	(10) R=3Ω V _s =8V	(11)Switch S open V_0 =4V,	closed V _o = 1.75V