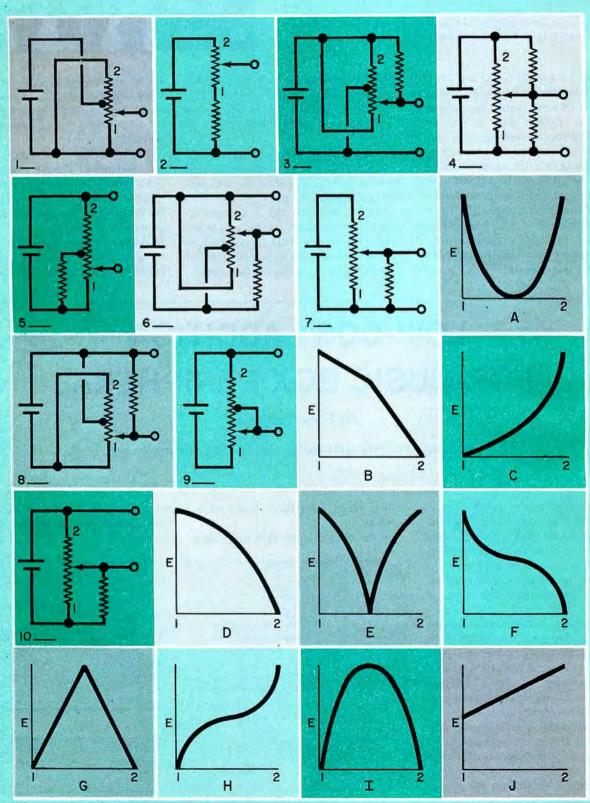
BY ROBERT P. BALIN

THE taper of a potentiometer can be easily changed to suit a particular application by the simple addition of one or more resistors. The new curve is easily predictable if you carefully observe the locations of the output terminals and which parts of a centertapped potentiometers are shunted by fixed resistors.

See if you can match the pot circuits (1-10) with their corresponding output voltage curves (A-J) produced when the wiper arm is moved from point 1 to point 2 in the circuit in each case.

Assume that all resistors and linear pots, some of which are center-tapped, have the same total resistance values.

(Answers on page 85)



POTENTIOMETER QUIZ ANSWERS

(Quiz is on page 56)

1-G. E is between wiper and negative. At 1 and 2, E=0 At center tap, E=input At 1/2 and 3/4, E=1/2 x input 2-J. E is between wiper and positive. At 1, E=1/2 x input At 2, E=input 3-E. E is between wiper and C.T. At 1 and 2, E=input At C. T., E=0 At 1/2 and 3/4. E is more than ½ x input E is not shunted, hence is more than linear value. E is between wiper and positive. 4-H. At 1, E=0 At 2, E=input At center tap, E= 1/2 x input At ¼, E is more than ¼ x input At %, E is less than % x input 5-B. E is between wiper and positive. At 1, E= input At 2, E=0 At center tap, E is more than ½ x input 6-1. E is between wiper and positive. At 1 and 2, E=0 At center tap, E=input At ¼ and ¾. E is more than ½ x input E is not shunted, hence is larger than linear value. 7-C. E is between wiper and negative. At 1, E=0 At 2, E=input E is shunted, hence is always smaller than linear value, 8-A. E is between wiper and C.T. At 1 and 2, E=input At center tap, E=0 At ¼ and ¾, E is less than ½ x input E is shunted, hence is smaller than linear value. 9-F. E is between wiper and positive. At 1, E=input At 2, E=0 At ¼, E= 2/3 x input At C. T., E= 1/2 x input At %, E= 1/3 x input 10-D. E is between wiper and positive. At 1, E=input At 2, E=0 Between 1 and 2, E is not shunted, hence always larger than linear.