

A,B,D, and F are in parallel



B,C and D are in parallel

Which elements are in series? 2 points



- O and F are in series
- O and F are in series
- B and C are in series

What is the relationship between vd and vf (note the polarity defined in the figure)

2 points

vd = vf

✓

oan't be determined

Given that va=10 V, vc=15 V, and ve= 20 V, determine values of vb and vf?

4 points

Applying KVL in the loop containing A, B, E

$$v_a + v_b - v_e = 0$$

 $10 + v_b$ -20 = 0
=> $v_b = 10$

Applying KVL in the loop containing A, C, F and E

$$v_a - v_c + v_f - v_e = 0$$

$$10 - 15 + v_f - 20 = 0$$

