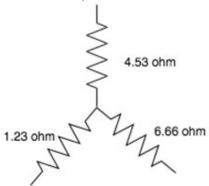
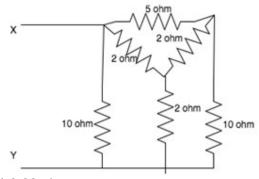
1. Find the equivalent delta circuit.

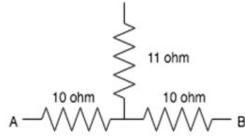


- a) 9.69 ohm, 35.71 ohm, 6.59 ohm
- b) 10.69 ohm, 35.71 ohm, 6.59 ohm
- c) 9.69 ohm, 34.71 ohm, 6.59 ohm
- d) 10.69 ohm, 35.71 ohm, 7.59 ohm
- 2. Which, among the following is the correct expression for star-delta conversion?
- a) R1=Ra*Rb/(Ra+Rb+Rc), R2=Rb*Rc/(Ra+Rb+Rc), R3=Rc*Ra/(Ra+Rb+Rc)
- b) R1=Ra/(Ra+Rb+Rc), R2=Rb/(Ra+Rb+Rc), Rc=/(Ra+Rb+Rc)
- c) R1=Ra+Rb+Ra*Rb/Rc, R2=Rc+Rb+Rc*Rb/Ra, R3=Ra+Rc+Ra*Rc/Rb
- d) R1=Ra*Rb/Rc, R2=Rc*Rb/Ra, R3=Ra*Rc/Rb
- 3. Find the equivalent resistance between X and Y.



- a) 3.33 ohm
- b) 4.34 ohm
- c) 5.65 ohm
- d) 2.38 ohm
- 4. Delta connection is also known as
- a) Y-connection
- b) Mesh connection
- c) Either Y-connection or mesh connection
- d) Neither Y-connection nor mesh connection
- 5. Ra is resistance at A, Rb is resistance at B, Rc is resistance at C in star connection. After transforming to delta, what is resistance between B and C?
- a) Rc+Rb+Rc*Rb/Ra
- b) Rc+Rb+Ra*Rb/Rc
- c) Ra+Rb+Ra*Rc/Rb

- d) Rc+Rb+Rc*Ra/Rb
- 6. Ra is resistance at A, Rb is resistance at B, Rc is resistance at C in star connection. After transforming to delta, what is resistance between A and C?
- a) Ra+Rb+Ra*Rb/Rc
- b) Ra+Rc+Ra*Rc/Rb
- c) Ra+Rb+Ra*Rc/Ra
- d) Ra+Rc+Ra*Rb/Rc
- 7. Ra is resistance at A, Rb is resistance at B, Rc is resistance at C in star connection. After transforming to delta, what is resistance between A and B?
- a) Rc+Rb+Ra*Rb/Rc
- b) Ra+Rb+Ra*Rc/Rb
- c) Ra+Rb+Ra*Rb/Rc
- d) Ra+Rc+Ra*Rc/Rb
- 8. If a 10hm 20hm and 32/30hm resistor is connected in star, find the equivalent delta connection.
- a) 34 ohm, 18.67 ohm, 3.19 ohm
- b) 33 ohm, 18.67 ohm, 3.19 ohm
- c) 33 ohm, 19.67 ohm, 3.19 ohm
- d) 34 ohm, 19.67 ohm, 3.19 ohm
- 9. If an 8/9ohm, 4/3ohm and 2/3ohm resistor is connected in star, find its delta equivalent.
- a) 4ohm, 3ohm, 2ohm
- b) 10hm, 30hm, 20hm
- c) 4ohm, 1ohm, 2ohm
- d) 4ohm, 3ohm, 1ohm
- 10. Find the equivalent resistance between A and B.



- a) 32ohm
- b) 31ohm
- c) 30ohm
- d) 29ohm