Report on Graph Drawing

1. Which of the following undirected graphs G = (V,E) are planar?
2. V = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}, E = { (0,2), (0,3), (0,4), (1,2), (1,3), (1,4), (2,3), (3,4) }
3. V = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}, E = { (0,1), (0,2), (0,5), (0,9), (1,2), (1,6), (2,3), (2,4), (3,3), (3,8), (4,5), (5,6), (5,7), (6,7), (7,8), (7,9), (8,9) }
4. V = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}, E = { (0,1), (0,5), (0,6), (1,2), (1,7), (2,3), (2,7), (2,8), (3,4), (3,8), (4,5), (4,9), (5,6), (5,9), (6,7), (6,9), (7,8), (8,9) }
5. Draw each of the graphs (a), (b), and (c) in question 1 using Tutte’s algorithm. Where possible, make the drawing planar. You can use a program, or else do the computation by hand.
6. Draw each of the following directed graphs G = (V,E) using a Sugiyama method. Again, you can use a program, or else do
7. the computation by hand.
8. V = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9}, E = { (0,1), (0,2), (0,3), (1,4), (1,5), (2,4), (2,5), (2,6), (3,5), (3,6), (4,7), (4,8), (5,7), (5,8), (5,9), (6,8), (6,9) }
9. V = {0, 1, 2, 3, 4, 5 }, E = { (0.1), (0,2), (1,2), (1,3), (1,4), (1,5), (2,3), (3,4), (4,5) }

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