

```

In[1]:= s[1] = {s11, s12};
        s[2] = {s21, s22};
        s[3] = {s31, s32};
        a[i_, j_] = s[i] + (s[j] - s[i]) / (1 - r[j] / r[i]);
        Det[{a[1, 2] - a[1, 3], a[1, 3] - a[2, 3]}]

```

Out[5]= 0

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s11 = 0;
s12 = 0;
s21 = 5;
s22 = 1;
s31 = 0;
s32 = 4;
r[1] = 2.01;
r[2] = 1;
r[3] = 0.52;
Graphics[{Table[Circle[s[i], r[i]], {i, 3}],
  Point[a[1, 2]], Point[a[1, 3]], Point[a[2, 3]],
  Line[{a[1, 2], a[1, 3], a[2, 3]}]}]

```

Out[7]=

