```
ln[23]:= X0 = 0;
       y0 = 0;
        R = 1; (*promien kulki*)
        c = 0.25 * 10^-4 * R;
        b = 1.6 * 10^{-4} R;
 In[5]:= m = 1; g = 9.81;
 ln[28]:= eq1 = -c * Sqrt[x'[t]^2 + y'[t]^2] * x'[t] - b * x'[t]
                      pierwiastek kwadratowy
Out[28]= -0.00016 \, x' \, [t] \, -0.000025 \, x' \, [t] \, \sqrt{x' \, [t]^2 + y' \, [t]^2}
ln[29]:= eq2 = -m * g - c * Sqrt[x'[t]^2 + y'[t]^2] * y'[t] - b * y'[t]
                              pierwiastek kwadratowy
Out[29]= -9.81 - 0.00016 \, y' \, [t] - 0.000025 \, y' \, [t] \, \sqrt{x' \, [t]^2 + y' \, [t]^2}
 In[46]:=
        tmax = 20;
 ln[47] = sol = NDSolve[{x''[t] == eq1, y''[t] == eq2,}
                rozwiąż numerycznie równanie różniczkowe
            y'[0] = 23.0, x'[0] = 19.0, x[0] = 0, y[0] = 0, {x, y}, {t, 0, tmax}]
                                                              Domain: {{0., 20.}}
Output: scalar
\text{Out}\text{[47]= } \left\{ \left\{ \mathbf{x} \rightarrow \text{InterpolatingFunction} \right[ \right. \right.
                                                              Domain: {{0., 20.}}
           y \rightarrow InterpolatingFunction
                                                                                    ] } }
                                                              Output: scalar
```

In[34]:=

