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In []:
          from IPython.display import display, Math
          from sympy import Eq, solve, latex, Rational
          from sympy.physics.units.systems import SI
          from sympy.physics.units import Quantity, length, mass, time
In []:
          t = Quantity('t', latex_repr='t')
          g = Quantity('g', latex_repr='g')
          v0x = Quantity('vAx', latex_repr='v_{Ax}')
          v0y = Quantity('vAy', latex_repr='v_{Ay}')
          xA = v0x * t
          yA = v0y * t - g * t**2 / 2
In []:
          param = \{g: 2, v0x: 3, v0y: 4\}
          xAs = xA_subs(param)
          yAs = yA_subs(param)
          max_t = 4
          dt_denom = 10
          dt = Rational(1, dt_denom)
          xA_list = [xAs_subs(t, i * dt) for i in range(dt_denom * max_t + 1)]
          yA_list = [yAs_subs(t, i * dt) for i in range(dt_denom * max_t + 1)]
In []:
          import matplotlib.pyplot as plt
          plt_scatter(xA_list, yA_list)
          plt.show()
```

