Act. 1 The blue and red curves are in tandem:
If the marks move together (both at left in the same time, etc), we say they are in
The minimal distance between two turns moving as is called
This distance is traveled by the wave during a
Act. 2 a) Abscissas (x in cm) of the turns of the spring which have the same movement as the source S (indication: when the blue and red curves overlap):
b) Period T_2 in this case ? ("break" box could be ticked):
c) Wavelength λ_2 for this period:
d) Calculate the speed of the wave:
Act. 3 a) Abscissas (x in cm) of the turns of the spring which have the same motion as source S:
b) Period T ₃ in this case ? ("break" box could be ticked):
c) Wavelength λ_3 for this period:
d) Calculate the speed of the wave:
Act. 4 a) Compare the values of speed found in activities 2 and 3:
b) How do you describe the environment for which we obtain such a result?
Act. 5 a) $x_R = 30$ cm and $x_B = 90$ cm. Note this delay: $\tau_1 = t_B - t_R =$
b) Is this delay a multiple of the period (measured in activity 2)?
c) The blue and red curves will they overlap?
d) $x_R = 12$ cm and $x_B = 84$ cm. New delay: $\tau_2 = t_B - t_R = \dots$
e) Frequency f of oscillations for this period: