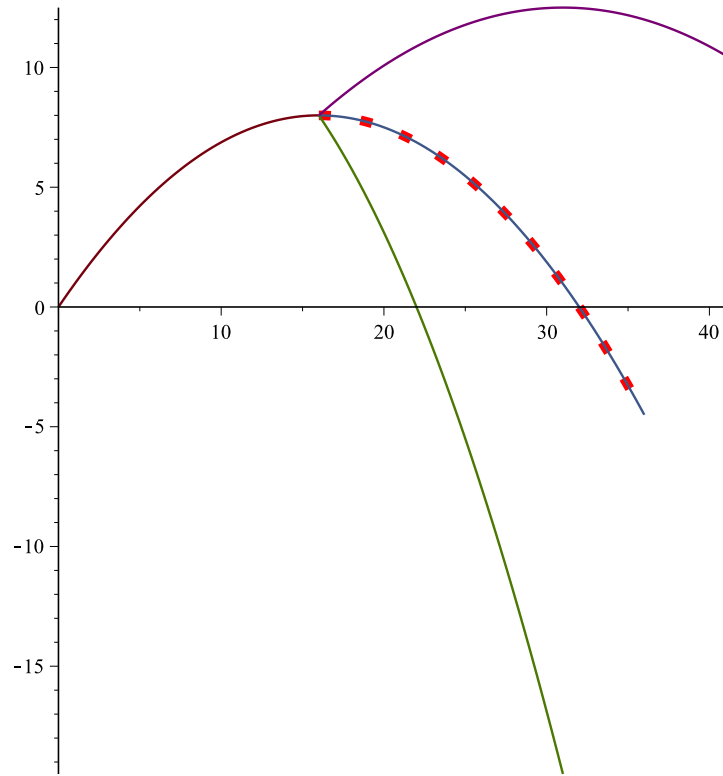


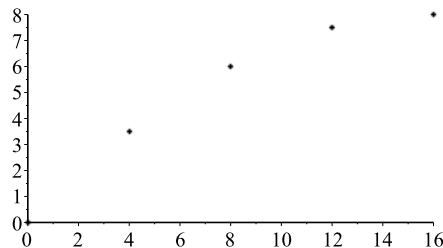
$$\text{plot}\left(\left\{\left[4 \cdot t, 4 \cdot t - \frac{t^2}{2}, t=0..4\right], \left[16 + 5 \cdot t, 8 + 3 \cdot t - \frac{t^2}{2}, t=0..5\right], \left[16 + 3 \cdot t, 8 - 3 \cdot t - \frac{t^2}{2}, t=0..5\right], \left[4 \cdot t, 4 \cdot t - \frac{t^2}{2}, t=4..9\right], \left[16 + 4 \cdot t, 8 - \frac{t^2}{2}, t=0..5\right]\right\}\right)$$



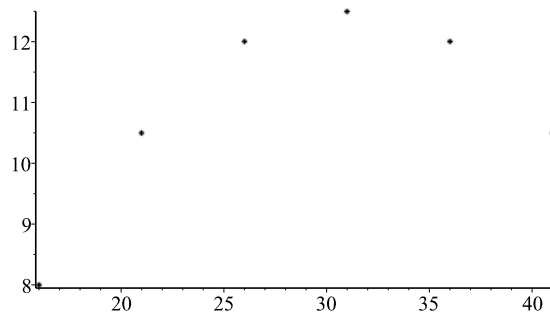
- Path for particle 1 after explosion (t=5..9)
- Path of the calculated center mass path
- Path for particle 2 after explosion (t=5..9)
- Path that the initial particle would follow if did not explode (t=5..9)
- Path of the initial particle for time (t=0..4)

So I have a pretty plot for the path with the legend that shows what each color path mean. But I computer would not let me use display function that maple has to put the point plots below on the same graph as my path graph. I did everything according to the maple help website and this technique worked before ( I used it in my previous courses). But now it deos not work. But the pointplot shows the position at each integer time (1,2,3...)

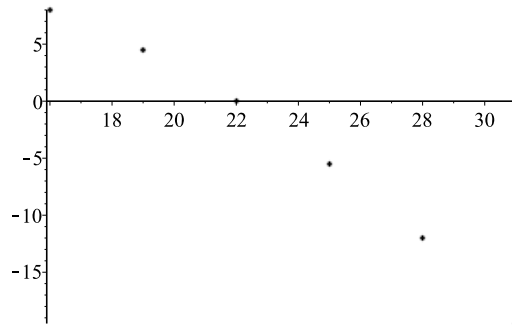
$plots[pointplot]\left(\left[seq\left(\left[4\cdot t, 4\cdot t - \frac{t^2}{2}\right], t=0..4\right)\right]\right)$  For the particle path before explotion



$plots[pointplot]\left(\left[seq\left(\left[16 + 5\cdot t, 8 + 3\cdot t - \frac{t^2}{2}\right], t=0..5\right)\right]\right)$  For the 1st particle path after explotion



$plots[pointplot]\left(\left[seq\left(\left[16 + 3\cdot t, 8 - 3\cdot t - \frac{t^2}{2}\right], t=0..5\right)\right]\right)$  For the 2 particle path after explotion



$$A := \text{plot} \left( \left\{ \left[ 4 \cdot t, 4 \cdot t - \frac{t^2}{2}, t=0..4 \right], \left[ 16 + 5 \cdot t, 8 + 3 \cdot t - \frac{t^2}{2}, t=0..5 \right], \left[ 16 + 3 \cdot t, 8 - 3 \cdot t - \frac{t^2}{2}, t=0..5 \right], \left[ 4 \cdot t, 4 \cdot t - \frac{t^2}{2}, t=4..9 \right], \left[ 16 + 4 \cdot t, 8 - \frac{t^2}{2}, t=0..5 \right] \right\} \right) :$$

$$B := \text{plots}[\text{pointplot}] \left( \left[ \text{seq} \left( \left[ 4 \cdot t, 4 \cdot t - \frac{t^2}{2} \right], t=0..4 \right) \right] \right) :$$

$$C := \text{plots}[\text{pointplot}] \left( \left[ \text{seq} \left( \left[ 16 + 5 \cdot t, 8 + 3 \cdot t - \frac{t^2}{2} \right], t=0..5 \right) \right] \right) :$$

$$F := \text{plots}[\text{pointplot}] \left( \left[ \text{seq} \left( \left[ 16 + 3 \cdot t, 8 - 3 \cdot t - \frac{t^2}{2} \right], t=0..5 \right) \right] \right) :$$

*with(plots) :*

*display ( {A, F, C, B} );*

*plots:-display {PLOT(...), PLOT(...), PLOT(...), PLOT(...)} (1)*

Above you can see that I did everything as it should be - it just does not put the picture... I tried really hard to make it happen...