

Respostas da Lista 9

1. a) Se conserva; b)  $9 \mathbf{i}$ ; c)  $\vec{v}_1 = -6 \left( \frac{\sqrt{2}}{2} - 1 \right) \hat{i} + 3\sqrt{2}\hat{j}$ ;  $\vec{v}_2 = -3\hat{i}$ ;  $\vec{v}_3 = (3 + \sqrt{2})\hat{i} - \sqrt{2}\hat{j}$ ; d)  $9 \mathbf{i}$

2. a)  $162/132=1,22 \text{ m/s}$ ; b)  $7/6=1,17 \text{ m/s}$

3.  $13,3 \text{ s}$

4.  $-20 \text{ m/s}$

5.  $4,2 \text{ m/s}$ ;  $17,4^\circ$