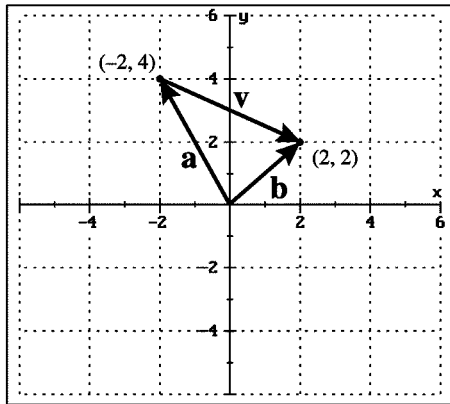


77 (a) Represent the point  $(-2, 4)$  by the vector  $\mathbf{a} = \langle -2, 4 \rangle$ .

The new location is given by  $\mathbf{b} = \mathbf{a} + \mathbf{v} = \langle -2, 4 \rangle + \langle 4, -2 \rangle = \langle -2 + 4, 4 + (-2) \rangle = \langle 2, 2 \rangle$

(b) See *Figure 77*.



*Figure 77*