

Aamot, Ole MEK1100 Øvelse 1 20200417

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**1.39 (a)**

$$\vec{A} = (3.60m\cos 70^\circ)\vec{i} + (3.60m\sin 70^\circ)\vec{j} = (1.23m)\vec{i} + (3.38m)\vec{j}$$
$$\vec{B} = (-2.40m\cos 30^\circ)\vec{i} + (-2.40m\sin 30^\circ)\vec{j} = (-2.08m)\vec{i} + (-1.20m)\vec{j}$$

**1.39 (b)**

$$\vec{C} = 3.00\vec{A} - 4.00\vec{B} = 3.00(3.60\cos(70^\circ)) + 3.00(3.60\sin(70^\circ)) - 4.00(-2.40\cos 30^\circ) - 4.00(-2.40\sin 30^\circ) = 3.00(3.60\cos 70^\circ + 3.60\sin 70^\circ) - 4.00(-2.40\cos 30^\circ - 2.40\sin 30^\circ)$$