

Hw3a

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$$1. \quad \vec{C} = 9\hat{i} + 4\hat{j} \quad C = \sqrt{97} \quad \theta = 24^\circ$$
$$\vec{D} = \hat{i} - 8\hat{j} \quad D = \sqrt{65} \quad \theta = 7.1^\circ$$

$$2. \quad C_x = -2.3 \quad C = 3.4$$
$$C_y = 2.5 \quad \theta = 42.6^\circ \text{ left of } y\text{-axis}$$

$$D_x = 6.3 \quad D = 6.8$$
$$D_y = -2.5 \quad \theta = 20^\circ$$

$$3. \quad 633 \text{ m} \quad 29^\circ \text{ N of E}$$