# Vector Handout 2

**Name:** _____     **Date:** _____

Convert the following vectors to the Cartesian representation. Box your final answer.

1. $A = 12.0 \, m \, @ \, 30$ degrees

3. $\vec{C} = 6.50 \, @ - 45$ degrees

2. $\vec{B} = 8.50 \, @ \, 110$ degrees
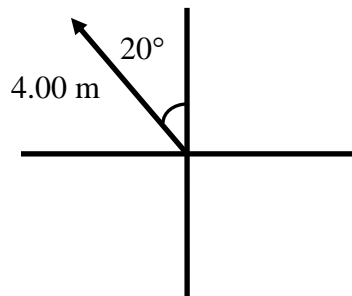
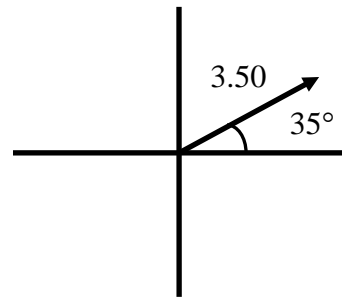4. $\vec{A} = 4.30 \, @ \, 240$ degrees

# Vector Handout 2

**Name:** _____    **Date:** _____

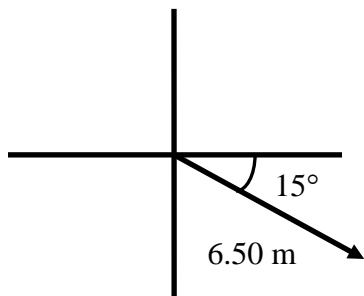Convert the following vectors to the Cartesian representation. Box your final answer.

**5.**

20°

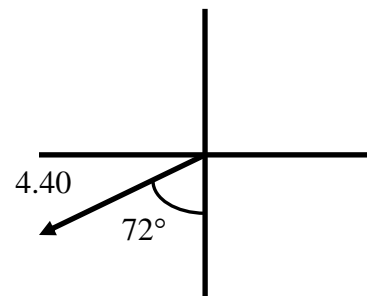4.00 m

**7.**
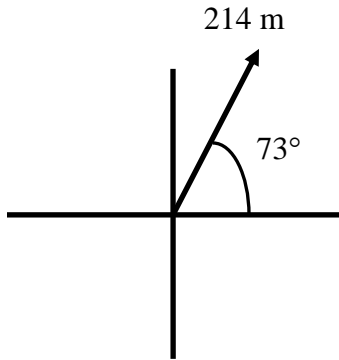
3.50

35°

**6.**

15°

6.50 m

**8.**

4.40

72°

# Vector Handout 2

**Name:** _____     **Date:** _____

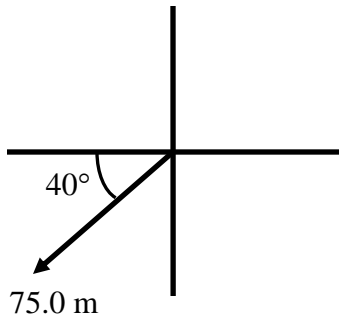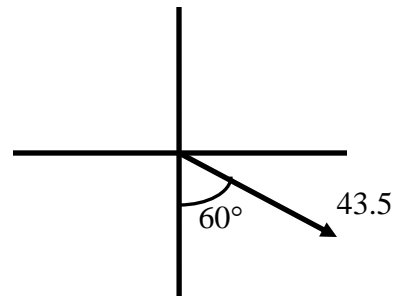Convert the following vectors to the Cartesian representation. Box your final answer.

**9.**

214 m

73°

**11.**

135

15°

**10.**

40°

75.0 m

**12.**

60°

43.5
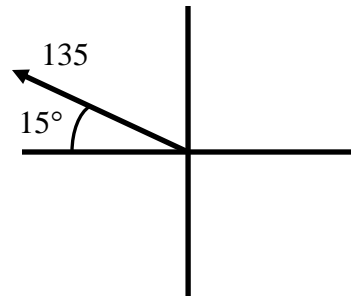
# Vector Handout 2

Name: _____        Date: _____

Convert the following vectors to polar form. Box your final answer.

**13.** $\vec{A} = 3.00 \; m \; \hat{\imath} - 5.00 \; m \; \hat{\jmath}$

**15.** $\hat{C} = -2.50 \; \hat{\imath} + 5.70 \; \hat{\jmath}$

**14.** $\hat{A} = -7.0 \; m \; \hat{\imath} - 4.0 \; m \; \hat{\jmath}$

**16.** $\vec{B} = 3.50 \; \hat{\imath} + 4.20 \; \hat{\jmath}$