ACMAT117 Fall 2025
Professor Manguba-Glover
Sections 1.2 Classwork (CW 1) Name: _____

Complete as many of the following problems as you can with your group. You do not have to go in order. Each group will be given specific problems that they must complete and present to Professor MG before they leave.

If **your entire table** finishes early, and you have presented your given problem, you may leave early.

1. Find the mean of the numbers $-3, -4, 6, 9$
2. Find the median of the set $2, 3, 6, 9, 11$
3. Find the domain and range of the relation $S = \{(1, 3), (2, 5), (1, 6)\}$
4. Find the midpoint of the line segment that connects $(4, 3)$ and $(-2, 5)$
5. Graph the following coordinates: $(2, 3)$, $(-4, 5)$, $(3, 1)$, and $(-1, -3)$
6. Find the center and radius of the following circle: $x^2 - 6x + y^2 + 4y + 4 = 0$
7. Find the distance between $(1, 3)$ and $(5, -1)$

Key:

1. 2
2. 6
3. $D = \{1, 2\}$, $R = \{3, 5, 6\}$
4. $(1, 4)$
5. Check with a graphing utility
6. Center: $(3, -2)$, Radius: 3
7. $4\sqrt{2}$