

MAT266 HOMEWORK 10 (SOLUTIONS)

1. *INCOMPLETE*

2. *INCOMPLETE*

3. *INCOMPLETE*

4. *INCOMPLETE*

5. a. We have $r = 1$, $\theta = \pi$, so

$$(x, y) = (r \cos \theta, r \sin \theta) = \boxed{(-1, 0)}.$$

b. We have $r = 2$, $\theta = -2\pi/3$, so

$$(x, y) = (r \cos \theta, r \sin \theta) = \boxed{(-1, -\sqrt{3})}.$$

c. We have $r = -2$, $\theta = 3\pi/4$, so

$$(x, y) = (r \cos \theta, r \sin \theta) = \boxed{(\sqrt{2}, -\sqrt{2})}.$$

6. *INCOMPLETE*

7. *INCOMPLETE*

8. *INCOMPLETE*

9. *INCOMPLETE*

10. *INCOMPLETE*

11. *INCOMPLETE*

12. *INCOMPLETE*