Handout 4: In Between Black And White, There Area Grid Areas
Answers

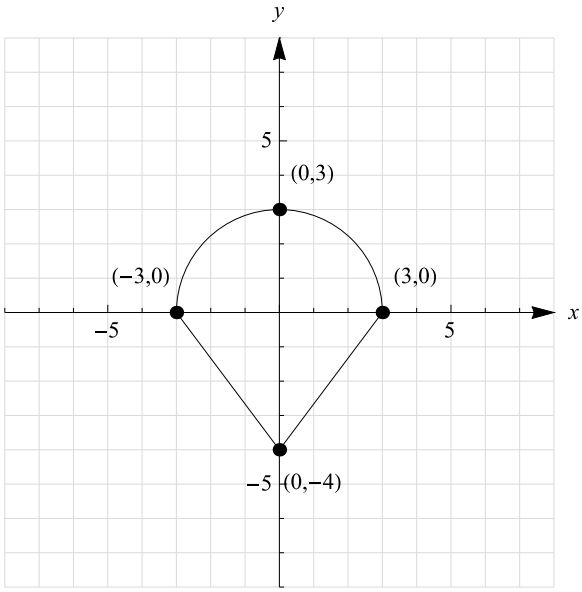

Figure 1

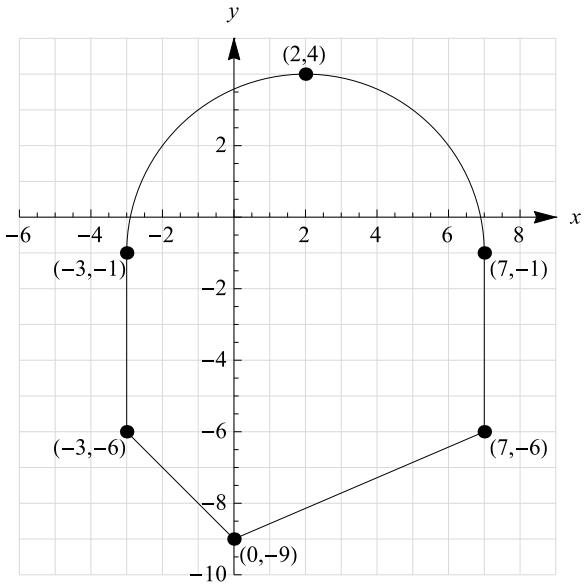

Figure 2

1. What is the area of a square whose side length extends from $(0,0)$ to $(3,4)$?
   25 units^2.

2. A rhombus has vertices at $(2,3)$, $(8,11)$, $(-4,11)$, and $(2,19)$. What is its area?
   96 units^2.

3. A trapezoid has vertices at $(3,0)$, $(-5,0)$, $(-5,8)$, and $(0,8)$. What is its area?
   52 units^2.

4. A kite has vertices at $(6,7)$, $(5,5)$, $(5,9)$, and $(0,7)$. What is its area?
   12 units^2.

5. A rectangle has vertices at $(3,0)$, $(0,-3)$, $(-2,5)$, and $(-5,2)$. What is its area?
   30 units^2.

6. A circle has an equation $(x-3)^2+(y+1)^2=20$. What is its area?
   $20\pi \approx 62.8$ units^2.

7. A circle has a point at $(2,-29)$ and a center at $(-10,6)$. What is its area?
   $1369\pi \approx 4300.8$ units^2.

8. What is the area of a quadrilateral with vertices at $(7,0)$, $(-5,0)$, $(0,8)$, and $(7,6)$?
   69 units^2.

9. What is the area of the shape in Figure 1?
   26.1 units^2.

10. What is the area of the shape in Figure 2?
    104.3 units^2.