Math 100
Answers to Exam 2 (Section 1 version)

1. (a) $W(t) = (-\sqrt{2}/2, \sqrt{2}/2)$, \(\cos(t) = -\sqrt{2}/2\), \(\tan(t) = -1\)

(b) $W(t) = (-1/2, \sqrt{3}/2)$, \(\cos(t) = -1/2\), \(\tan(t) = -\sqrt{3}\)

2. $-5/4$

3. (a) Reflect about the $x$-axis, then shift up 5 units.

4. (a) $-\infty$

(b) 1

(c) 6

(d) 2

5. (a) 0

(b) 4/7

(c) 3/4

(d) DNE

(e) 1/2

(f) -6

(g) -1

6. The function $f$ is not continuous at $-2$ because \(\lim_{x \to -2} f(x)\) does not exist.

7. There are many possible correct answers for this.