**HW Answers: Composition of Functions**

1. {(0, –1), (–1, 4), (4, 0)}; {(–9, 3), (–1, –9), (3, –1)}
2. {(–2, –2), (3, –2)}; {(–4, 1), (0, 0), (1, 0)}
3. {(6, 6), (–5, 3), (3, –5)}; {(–4, 0), (0, –4), (1, 1)}
4. does not exist; {(0, 0), (1, 0), (6, 2)}
5. 3x –12; 3x – 4
6. –16x – 24; –16x + 3
7. 3x2 + 6; 3x2 + 36x + 108
8. 2x2 + 3; 2x2 + 12x + 18
9. –2x2 – 6x – 4; 4x2 – 6x + 2
10. 3x2 –1; 3x2 – 12x + 13
11. 25
12. 10
13. 20
14. 25
15. -11
16. 320
17. 10
18. 29
19. 400
20. 25
21. 35
22. 39
23. 45
24. 4
25. 196
26. [m ∘ f ](n) = $\frac{n}{63,360}$