Algebra 2B 7.7-7.8 Review

21. Graph the relation and its inverse. Use open circles to graph the points of the inverse.

x	−10	−5	1	9
y	4	−9	2	−9

22. Graph the relation and its inverse. Use open circles to graph the points of the inverse.

x	−6	−5	−3	6
y	9	−9	10	−3

23. Find the inverse of $y = 6x^2 + 4$.

24. Find the inverse of $y = 2x^2 - 7$.

25. Graph $y = 2x^2 + 3$ and its inverse.

26. Graph $y = 4x^2 - 2$ and its inverse.

27. Rewrite $y = \sqrt{16x - 32} + 3$ to make it easy to graph using a translation. Describe the graph.

28. Rewrite $y = \sqrt{4x + 16} - 4$ to make it easy to graph using a translation. Describe the graph.

29. For the function $f(x) = (7 - 8x)^2$, find f^{-1}. Determine whether f^{-1} is a function.

30. For the function $f(x) = (4 - 2x)^2$, find f^{-1}. Determine whether f^{-1} is a function.

Graph the function.

31. $y = \sqrt{x} - 1$

32. $y = \sqrt{x + 3}$

33. $y = -2.5\sqrt{x}$

34. $y = -0.5\sqrt{x - 3} + 2$

35. $y = -2\sqrt[3]{x - 3} + 1$