**10-1 to 10-4 Review**

**Find the domain and range for each square root function.  
State the *x*- and *y*-intercepts, if they exist.**

**1.** *f*(*x*) = 

Domain: \_\_\_\_\_\_

Range: \_\_\_\_\_\_

*x*-intercept: \_\_\_\_\_\_

*y*-intercept: \_\_\_\_\_\_

**2.** *g*(*x*) = 

Domain: \_\_\_\_\_\_

Range: \_\_\_\_\_\_

*x*-intercept: \_\_\_\_\_\_

*y*-intercept: \_\_\_\_\_\_

**3.** *h*(*x*) = 

Domain: \_\_\_\_\_\_

Range: \_\_\_\_\_\_

*x*-intercept: \_\_\_\_\_\_

*y*-intercept: \_\_\_\_\_\_

**Graph each function by translating *f*(*x*) = **

**4.** *g*(*x*) = 



**5.** *h*(*x*) = 



**6.** *k*(*x*) = 



**For each function, identify the domain, range, and intercepts.**

**7.** *g*(*x*) = 

**8.** *h*(*x*) = 

**Graph each function by translating *f*(*x*) = **

**9.** *g*(*x*) =  **10.** *k*(*x*) = 



**Graph each function. State its domain and range. Determine the minimum and maximum values and the equation of the axis of symmetry, if it exists.**

**11.** *f*(*x*) = (*x* − 5)2 + 3



**12.** *g*(*x*) = − *|x* + 4*|* − 2



**13.** *h*(*x*) = 



**Describe the effect of each translation of *f* for the given function.**

**14.** *g*(*x*) = *f*(*x*) + 8

**15.** *h*(*x*) = *f*(*x* − 11)

**16.** *j*(*x*) = *f*(*x* + 7) − 4

**Sketch the graph each function.**

**17.** *f*(*x*) = (*x* − 2)2 – 4 **18.** *g*(*x*) = **19.** *h*(*x*) = 2*x* + 4

