**10-5 Additional Practice**Reflections, Compressions and Stretches of Functions

**Write an equation for function *g* with a graph that is the reflection of the graph of *f* across the *x*-axis.**

**1.** *f*(*x*) = *|x* + 4*|* + 3

**2.** *f*(*x*) = 

**3.** *f*(*x*) = 5*x*−2 – 2

**For each pair, tell whether the graph of *g* is a vertical stretch or vertical compression of the graph of *f*. For each stretch or compression, state the factor used. Make a sketch of the shape of the parent function for each pair.**

**4.** *f*(*x*) = (*x* − 2)2
*g*(*x*) = 3(*x* − 2)2

**5.** *f*(*x*) = |*x*| − 5
*g*(*x*) = 0.25|*x*| − 5

**6.** *f*(*x*) = 3*x* – 6
*g*(*x*) = 

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

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

**9.** *f*(*x*) = 3*x* – 9
*g*(*x*) = *x* – 3

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