**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_\_\_\_\_\_**

**10.2: Minimum/Maximum Values**

**Tell whether the function has a minimum or maximum value. Then find the minimum or maximum value.**

**1.** *f*(*x*) = 9*x*² – 36 **2.** *f*(*x*) = $-\frac{3}{4}x^{2}+18x-7$

**3.** *f*(*x*) = $\frac{5}{4}x^{2}-10x+3$ **4.** *f*(*x*) = 8*x*² – 40

**5.** *f*(*x*) = –5*x*² + 10*x* – 2 **6.** *f*(*x*) = 8*x*² – 4*x* + 4

**7.** *f*(*x*) = *x*² – 7 **8.** *f*(*x*) = – *x*² + 9

**9.** *f*(*x*) = 2*x*² + 4*x*