

# 1.6 HW

**Determine the vertex for each of the following quadratic functions.**

1.  $F(x) = (400 - x)x$

2.  $G(x) = -(400 - x)(100 - x)$

3.  $H(x) = x(x - 8)$

4.  $J(x) = -(x - 2)(x - 13)$

5.  $K(x) = (x + 5)(x + 9)$

6.  $L(x) = (2x + 6)(3x - 30)$

7.  $M(x) = (240 - 2x)(5x + 100)$

8.  $N(x) = (3x - 2)(x + 7)$