

Soln. 1

$$y = x^2$$

Soln 8.

$$\begin{cases} y = x^2, & x \geq 0 \\ y = \frac{x^2}{2}, & x \leq 0 \end{cases}$$

Soln 3. $y = x^2 \operatorname{sgn} x$

Soln 4.

$$y = -x^2 \operatorname{sgn} x$$

Soln 7.

$$y = \frac{x^2}{2}$$

Soln. 2

$$y = -x^2$$

Soln 6.

$$\begin{cases} y = x^2, & x \geq 0 \\ y = -\frac{x^2}{2}, & x < 0 \end{cases}$$

Soln 5. $y = -\frac{x^2}{2}$