Definition 1. *Define the function C by the formula* $C(y) = \begin{cases} 8y-3 & -6 \le y \le -3 \\ -(y-2)^2+1 & -1 \le y < 4 \\ \dfrac{y-5}{y+1} & 4 \le y < 8 \end{cases}$

Exercise 1

- *Evaluate* $C(-5) = \boxed{-43}$
- *Evaluate* $C(-3) = \boxed{-27}$
- *Evaluate* $C(0) = \boxed{-3}$
- *Evaluate* $C(4) = \boxed{-1/5}$
- *Evaluate* $C(8) = \boxed{DNE}$

Enter DNE if the value does not exist.

Exercise 2

- *Evaluate* $C(-\sqrt{10}) = \boxed{-8\sqrt{10}-3}$
- *Evaluate* $C(-\pi) = \boxed{-8\pi-3}$
- *Evaluate* $C(-2) = \boxed{DNE}$
- *Evaluate* $C\left(\frac{3}{4}\right) = \boxed{-\frac{9}{16}}$
- *Evaluate* $C(2+\sqrt{3}) = \boxed{-2}$
- *Evaluate* $C(\pi^2) = \boxed{DNE}$

Enter DNE if the value does not exist.
