

Module 3 Review Part 3

Carefully graph each of the following.

$$1. \quad f(x) = \begin{cases} 2x + 3, & x \leq -2 \\ x^2, & -2 < x \leq 3 \\ \frac{1}{3}x + 1, & x > 3 \end{cases}$$

$$2x + 3$$

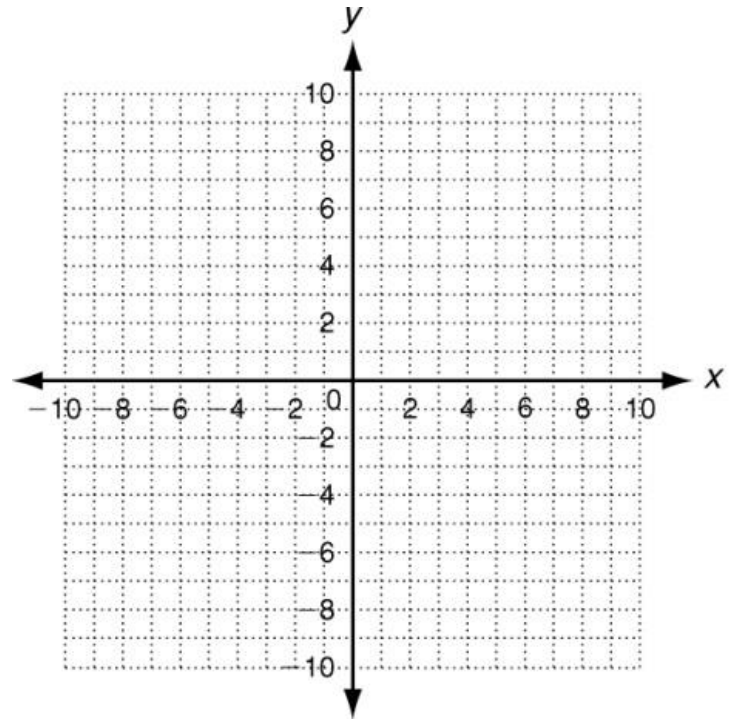
x	y

$$x^2$$

x	y

$$\frac{1}{3}x + 1$$

x	y



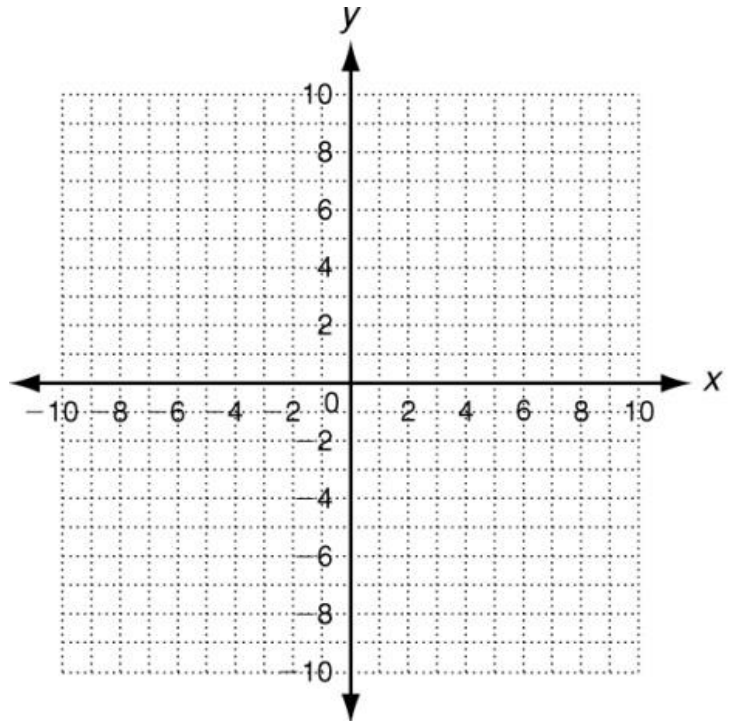
$$2. \quad f(x) = \begin{cases} 3x - 2, & x \geq 2 \\ -2x + 8, & x < 2 \end{cases}$$

$$3x - 2$$

x	y

$$-2x + 8$$

x	y



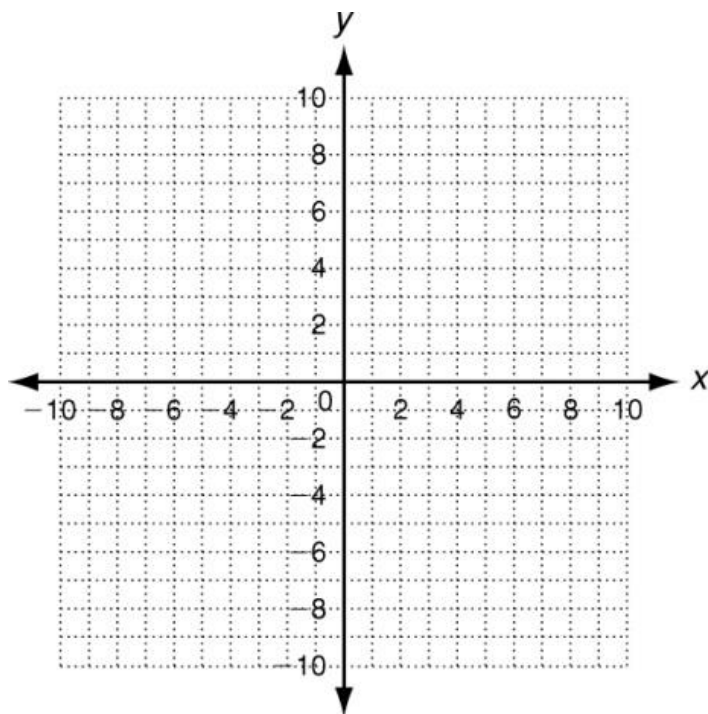
$$3. \quad f(x) = \begin{cases} 3^x - 9, & x > 0 \\ \frac{1}{2}x + 6, & x \leq 0 \end{cases}$$

$$3^x - 9$$

x	y

$$\frac{1}{2}x + 6$$

x	y



$$4. \quad f(x) = \begin{cases} x + 7, & x < -3 \\ -5, & -3 \leq x < 3 \\ -2x + 4, & x \geq 3 \end{cases}$$

$$x + 7$$

x	y

$$-5$$

x	y

$$-2x + 4$$

x	y

