

Below are several Fourier reactions. Fill in the missing portions.

$$\begin{aligned} \frac{1}{2}x + 2 &= \frac{1}{2}bx + c + 2x \\ \frac{1}{2}x + 2 &= \frac{1}{2}bx + c + 2x \\ \frac{1}{2}x + 2 &= \frac{1}{2}bx + c + 2x \\ \frac{1}{2}x + 2 &= \frac{1}{2}bx + c + 2x \\ &= 2x + \frac{1}{2}bx + c + 2x = 2x \end{aligned}$$

$$\begin{aligned} \frac{1}{2}bx + c &= \frac{1}{2}bx + c \\ \frac{1}{2}bx + c &= \frac{1}{2}bx + c \\ \frac{1}{2}bx + c &= \frac{1}{2}bx + c \\ \frac{1}{2}bx + c &= \frac{1}{2}bx + c \\ \frac{1}{2}bx + c &= \frac{1}{2}bx + c \\ \frac{1}{2}bx + c &= \frac{1}{2}bx + c \\ \frac{1}{2}bx + c &= \frac{1}{2}bx + c \\ \frac{1}{2}bx + c &= \frac{1}{2}bx + c \end{aligned}$$

Complete the following equations, using appropriate conditions and formulas:

$$\begin{aligned} \text{a) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c & \text{b) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c & \text{c) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c \\ \text{d) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c & \text{e) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c & \text{f) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c \end{aligned}$$

**Solution:**

$$\begin{aligned} \text{a) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c & \text{b) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c & \text{c) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c \\ \text{d) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c & \text{e) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c & \text{f) } \frac{1}{2}bx + c &= \frac{1}{2}bx + c \end{aligned}$$