6.1.9.d

$$(f \circ g)(4) = f(g(4)) = f(2) = -2.$$

6.1.11.c

$$(f \circ f)(1) = f(f(1)) = f(2(1)) = f(2) = 2(2) = 4.$$

6.1.35.b

$$(g \circ f)(x) = g\left(\frac{3}{x-1}\right)$$

$$= \frac{2}{\frac{3}{x-1}}$$

$$= \frac{2(x-1)}{3} \text{ for } x-1 \neq 0$$

$$= \frac{2}{3}x - \frac{2}{3} \text{ for } x \neq 1.$$

Then

$$\mathrm{dom}\,(g\circ f)=\{x\mid x\neq 1\}=(-\infty,1)\cup(1,\infty).$$