

17

Evaluate

$$(f-g)(x) = (2x-7) - (x+3) = x-10, \text{ therefore}$$
$$(f-g)(5) = 5-10 = \boxed{-5}.$$

18

Evaluate

$$\frac{f}{g}(x) = \frac{5x}{10x^2} = \frac{1}{2x}, \text{ therefore}$$

$$\frac{f}{g}(2) = \frac{1}{2 \cdot 2} = \boxed{\frac{1}{4}}.$$

19

Evaluate

$$(fg)(x) = (3x-5)(x+2) = 3x^2 + x - 10, \text{ therefore}$$
$$(fg)(-1) = 3(-1)^2 + (-1) - 10 = \boxed{-8}.$$

20

$$a \ (fg)(x) = 5x(x-1) = \boxed{5x^2 - 5x}.$$

$$b \ (fg)(2) = 5(2)^2 - 5(2) = \boxed{10}.$$