#13 SA: Algebra of Functions

Total points 5/5

Name *

Section *

✓ Q. * 1/1

$f(x) = \sqrt{2-x}$ & $g(x) = \sqrt{2+x}$

$D_{fg} =$

$(-\infty, 2]$

Option 1

$[-2, \infty)$

Option 2

None of these

$[-2, 2]$

Option 3 ✓

Q. *

1/1

$f(x) = \frac{1}{x-2}, \quad g(x) = x - 2$

$D_{fg} =$

R

Option 1

$R - \{2\}$

Option 2

$[2, \infty)$

Option 3

$(-\infty, 2]$

Option 4

✓ Q. *

1/1

$f(x) = x^2 - 5x + 6,\ g(x) = x - 3,\ \left(\frac{f}{g}\right)(x) =$

$x - 2$

- (●) Option 1 ✓

$x + 2$

- ( ) Option 2
- ( ) None of these

$x - 6$

- ( ) Option 3
- ( ) Other: _____

✓ *

$$f(x) = \frac{1}{\sqrt{1-x}},\ g(x) = 2x + 1,\ D_{f-g} =$$

$(-\infty, 1]$

Option 1

$(-\infty, 1)$

Option 2 ✓

$(1, \infty)$

Option 3

$[1, \infty)$

Option 4