**2C Composite Functions**

1. Given:

 f(x) = x2 g(x) = x + 1

 Find:

1. fg(x)
2. gf(x)
3. Given:

 f(x) = 3x + 2 g(x) = x2 + 4

 Find:

1. fg(x)
2. gf(x)
3. f2(x)
4. The values of b so that fg(b) = 62
5. The functions $f$ and $g$ are defined by:

$$f:x\rightarrow \left|2x-8\right|$$

$$g:x\rightarrow \frac{x+1}{2}$$

1. Find $fg(3)$
2. Solve $fg\left(x\right)=x$