3.

w + 3

4 w
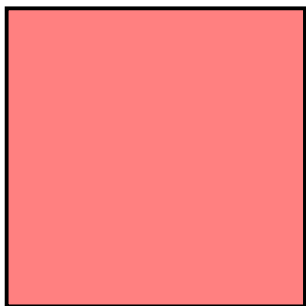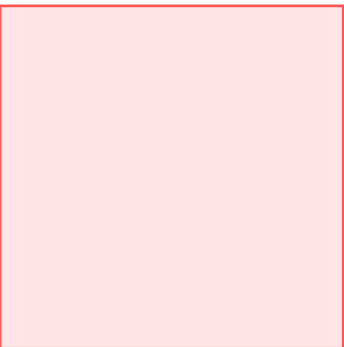
16 w

$3 w^2 + 12 w$

$4 w^2 + 12 w$

$4 w + 3 w^2$

Solution

$$= (w + 3) \times (4 w)$$
$$= 4 w^2 + 12 w$$