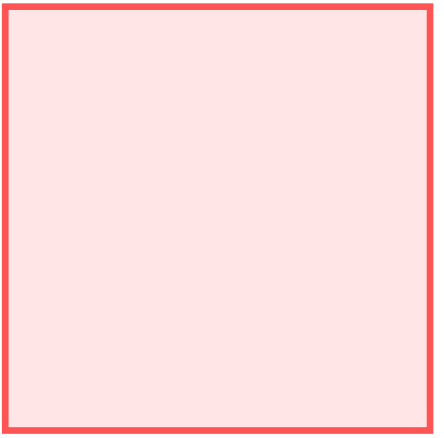
4. 

$9\,r+10\,c+3\,r-2\,c$

$12\,c+6\,r$

$12\,c+12\,r$

$8\,c+12\,r$

$12\,c+13\,r$

# Solution

$$9\,r+10\,c+3\,r-2\,c$$
$$=\ (9\,r+3\,r)+(10\,c-2\,c)$$
$$=\ 12\,r+8\,c$$