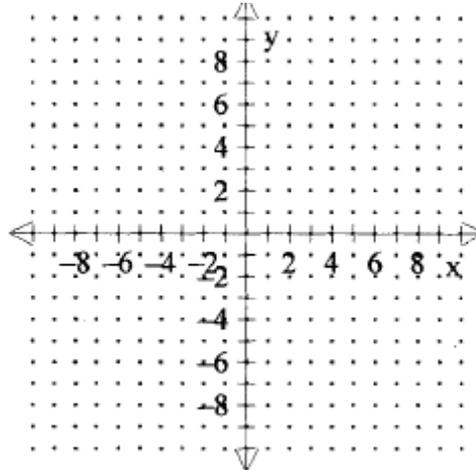


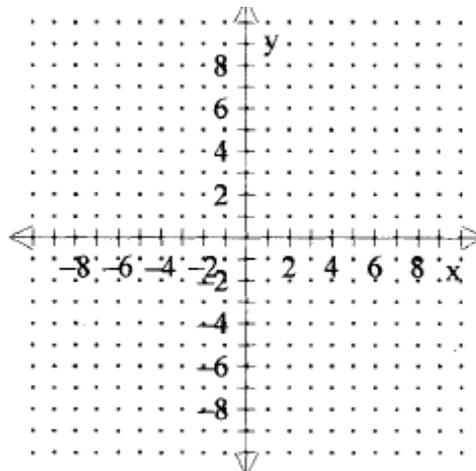
Find the maximum and minimum values of the objective function (C) subject to the given constraints.

1.
 $C = 2x + y$
 $x \geq 0$
 $x + y \leq 10$
 $y \geq 3$



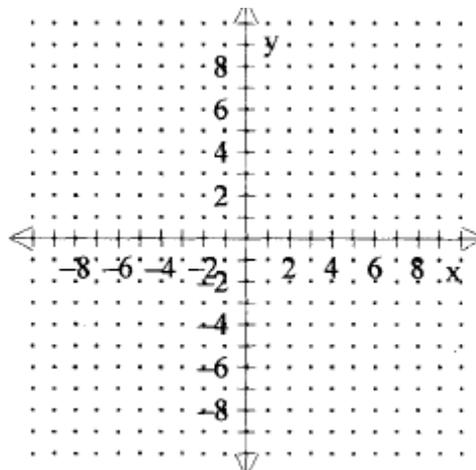
vertices	$C = 2x + y$

2.
 $C = x + 4y$
 $x \geq 2$
 $x \leq 5$
 $y \geq 1$
 $y \leq 6$



vertices	$C = x + 4y$

3.
 $C = 3x + 5y$
 $x + y \geq 2$
 $8x - 4y \leq 16$
 $6y \leq 6x + 12$



vertices	$C = 3x + 5y$

