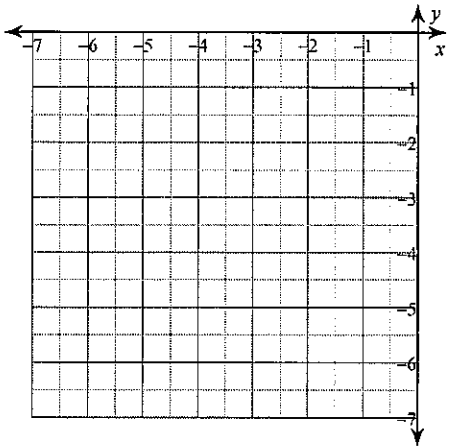


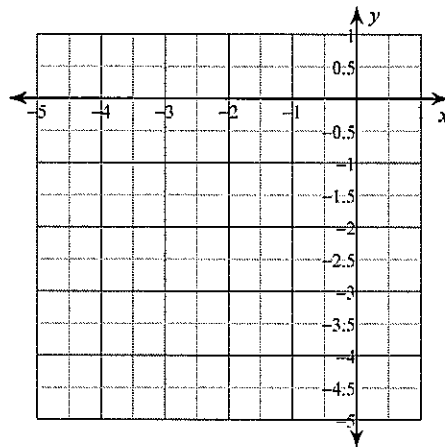
Worksheet 3G

Sketch the graph of each function.

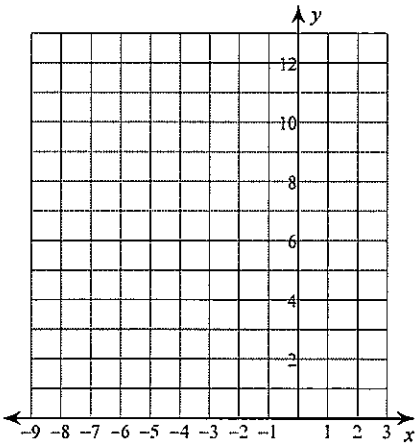
1) $y > -x^2 - 8x - 18$



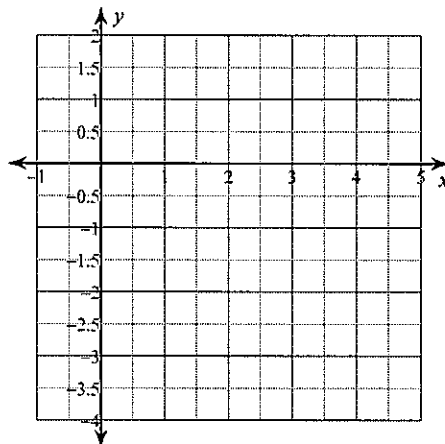
2) $y < x^2 + 4x$



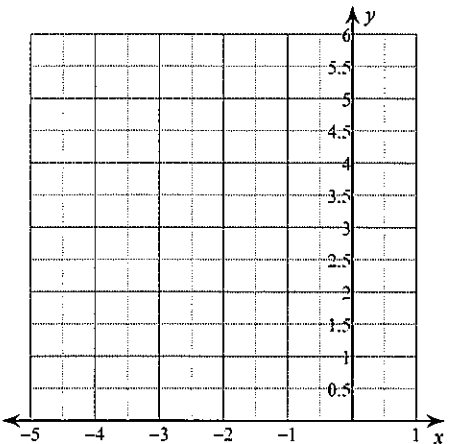
3) $y \leq 2x^2 + 12x + 22$



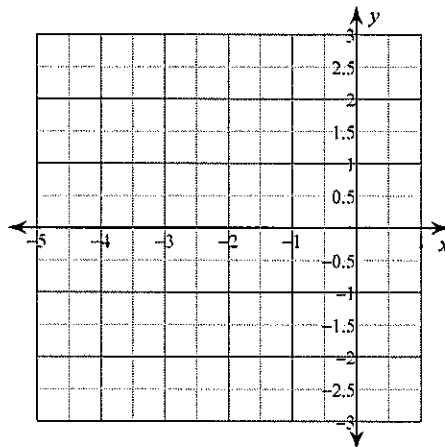
4) $y \geq x^2 - 6x + 6$



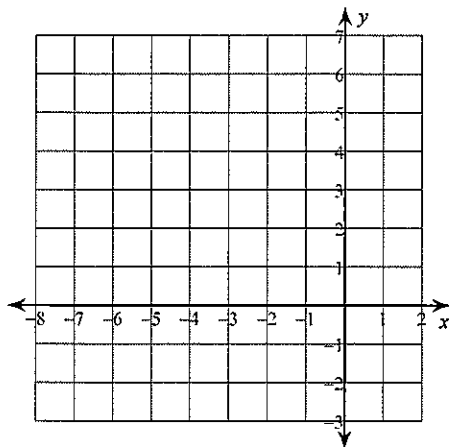
5) $y < x^2 + 2x + 2$



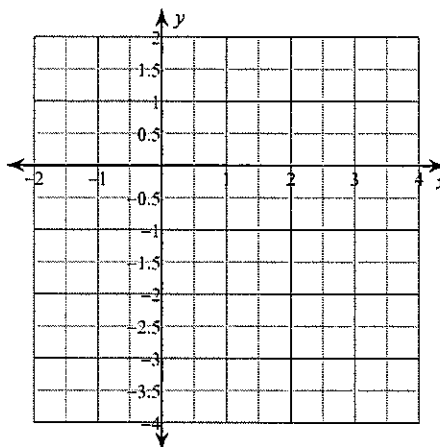
6) $y \geq \frac{1}{2}x^2 + 2x + 1$



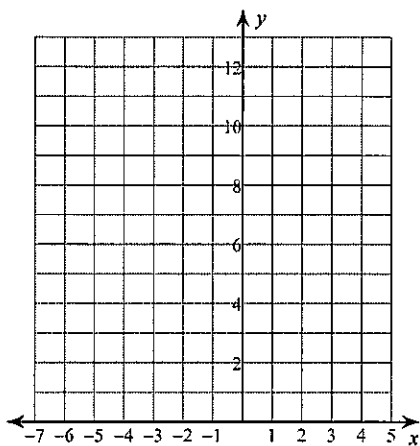
$$7) y < 2(x+1)^2 - 2$$



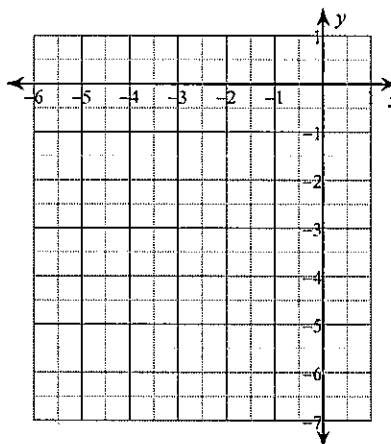
$$8) y \geq -(x-1)^2 + 1$$



$$9) y > 2(x+2)^2 + 4$$



$$10) y \leq -\frac{1}{2}(x+4)^2 - 3$$



Solve each equation by factoring.

$$11) a^2 > 6a$$

$$12) x^2 + 9x \geq -8$$

$$13) v^2 \leq -v + 12$$

$$14) x^2 \leq 5x$$

$$15) x^2 + 5x < 24$$

$$16) n^2 < -48 - 14n$$