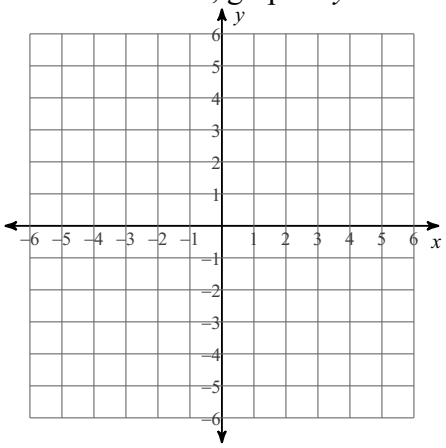
Math II Name_____

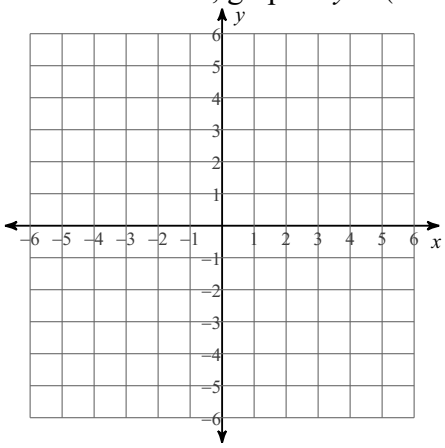
Quadratic Transformations

Date_____ Period____

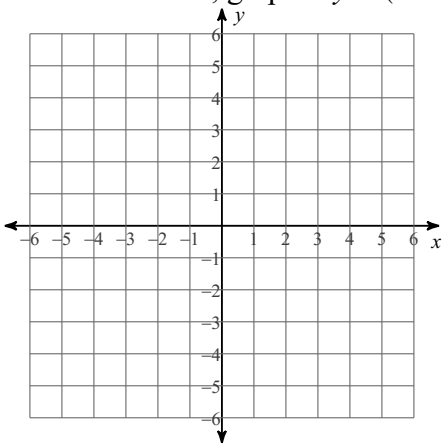
1) With a faint line, graph $y = x$.
With a dotted line, graph $y = x^2$.
With a dark line, graph $y = x^2 - 4$.



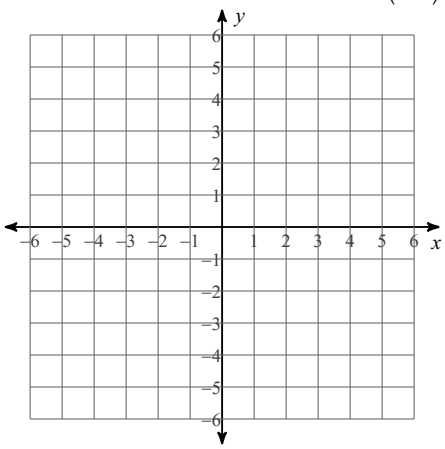
2) With a faint line, graph $y = x$.
With a dotted line, graph $y = x - 4$.
With a dark line, graph $y = (x - 4)^2$.



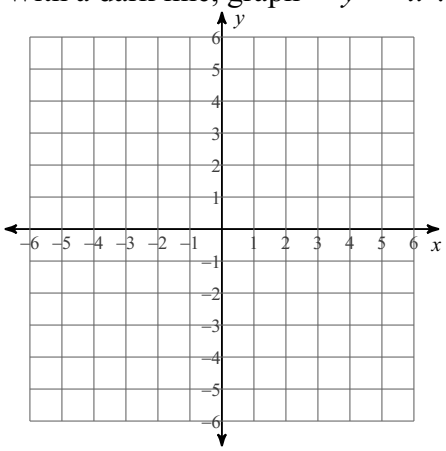
3) With a faint line, graph $y = x$.
With a dotted line, graph $y = x + 2$.
With a dark line, graph $y = (x + 2)^2$.



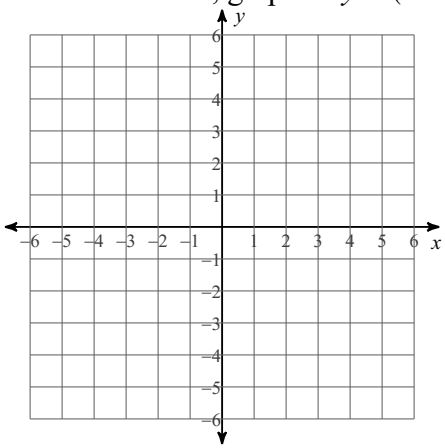
4) With a faint line, graph $y = x$.
With a dotted line, graph $y = \frac{1}{2}x$.
With a dark line, graph $y = \left(\frac{1}{2}x\right)^2$.



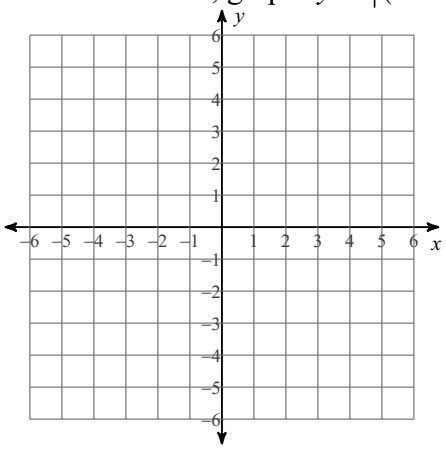
5) With a faint line, graph $y = x$.
With a dotted line, graph $y = x^2$.
With a dark line, graph $y = -x^2$.



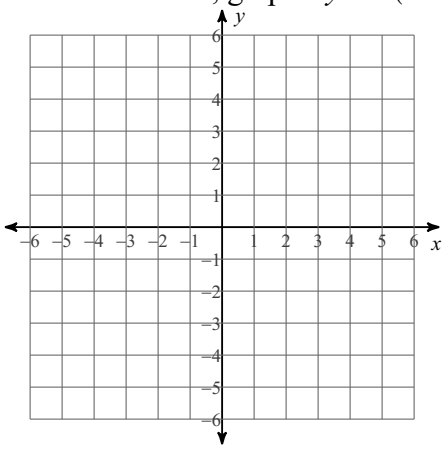
6) With a faint line, graph $y = x$.
With a dotted line, graph $y = x + 1$.
With a dark line, graph $y = (x + 1)^2$.



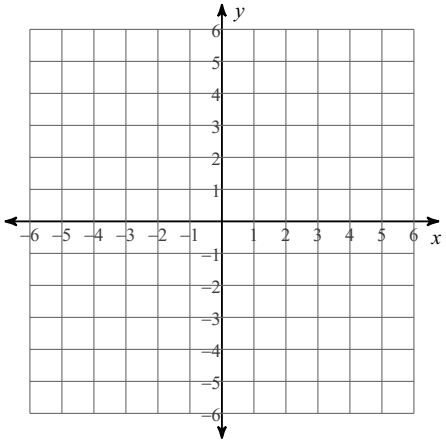
7) With a faint line, graph $y = x + 2$.
With a dotted line, graph $y = (x + 2)^2$.
With a dashed line, graph $y = (x + 2)^2 - 4$.
With a dark line, graph $y = \left|(x + 2)^2 - 4\right|$.



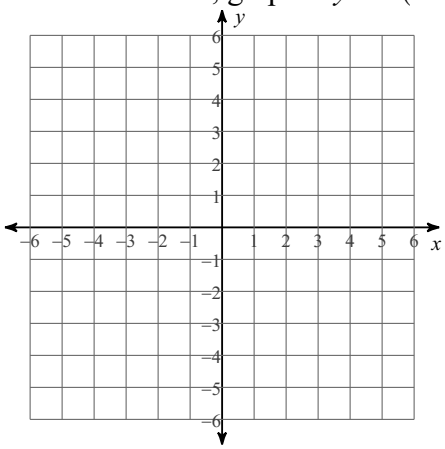
8) With a faint line, graph $y = x - 3$.
With a dotted line, graph $y = (x - 3)^2$.
With a dashed line, graph $y = -(x - 3)^2$.
With a dark line, graph $y = -(x - 3)^2 - 1$.



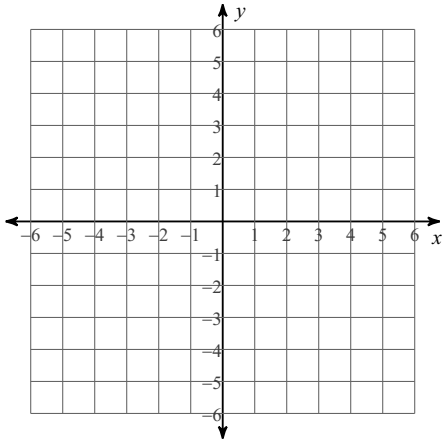
9) With a faint line, graph $y = x - 5$.
With a dotted line, graph $y = (x - 5)^2$.
With a dark line, graph $y = (x - 5)^2 + 2$.



10) With a faint line, graph $y = x + 1$.
With a dotted line, graph $y = (x + 1)^2$.
With a dark line, graph $y = -(x + 1)^2$.



11) With a faint line, graph $y = x + 3$.
With a dotted line, graph $y = (x + 3)^2$.
With a dashed line, graph $y = \frac{1}{2}(x + 3)^2$.
With a dark line, graph $y = \frac{1}{2}(x + 3)^2 - 5$.



12) With a faint line, graph $y = x + 4$.
With a dotted line, graph $y = (x + 4)^2$.
With a dashed line, graph $y = (x + 4)^2 - 2$.
With a dark line, graph $y = \left|(x + 4)^2 - 2\right|$.