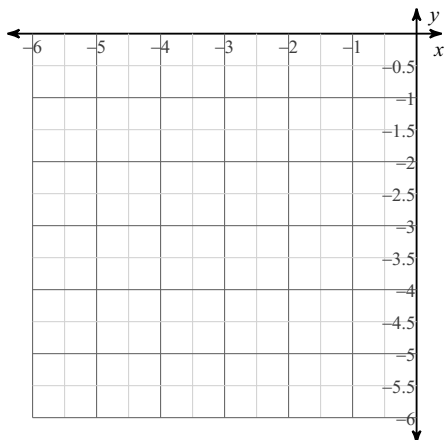


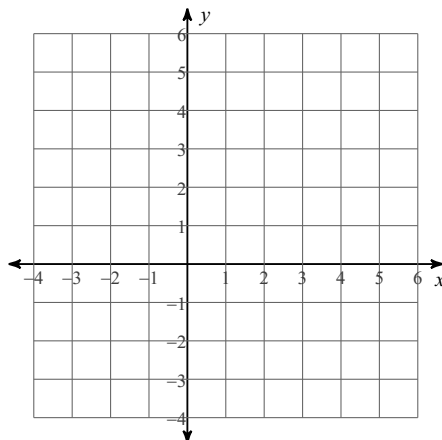
4.2 Part B Transformations

Use your knowledge of parent functions and transformations to sketch the graph of each function. State the transformations from the parent function.

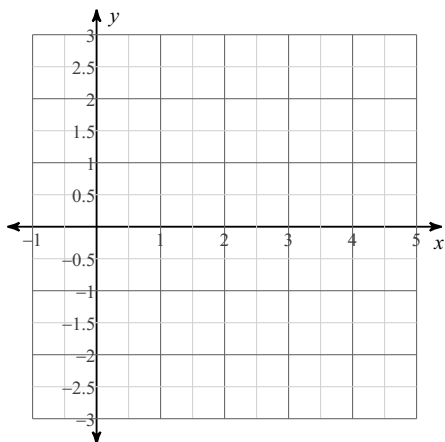
1)  $f(x) = -(x + 3)^2 - 1$



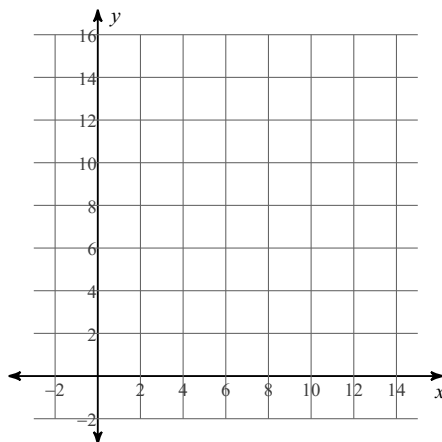
2)  $f(x) = 2(x - 1)^2 - 3$



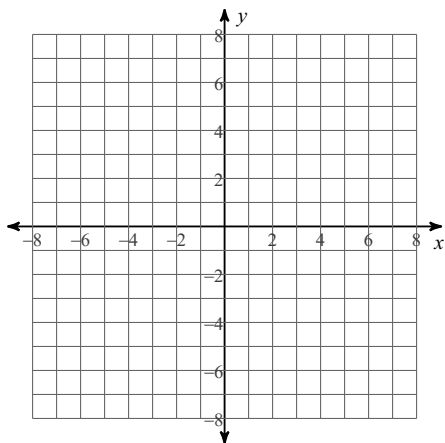
3)  $f(x) = (x - 2)^2 - 2$



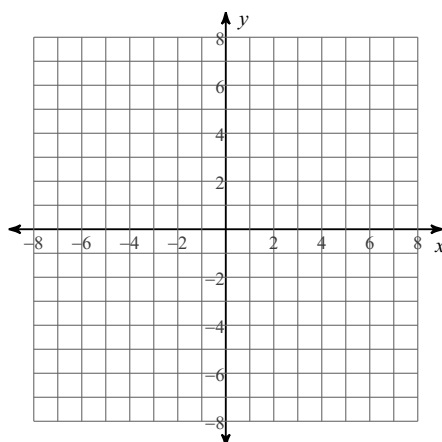
4)  $f(x) = 4(x - 1)^2 - 1$



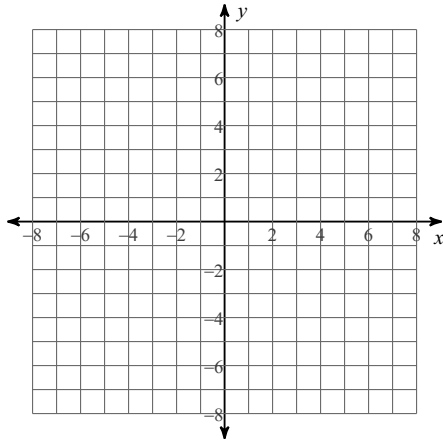
5)  $y = 3\sqrt{x - 2}$



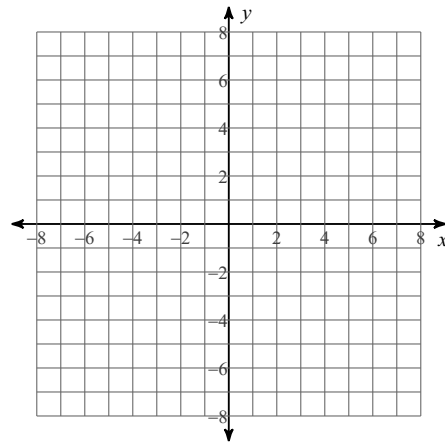
6)  $y = \frac{3}{5}\sqrt{x - 3}$



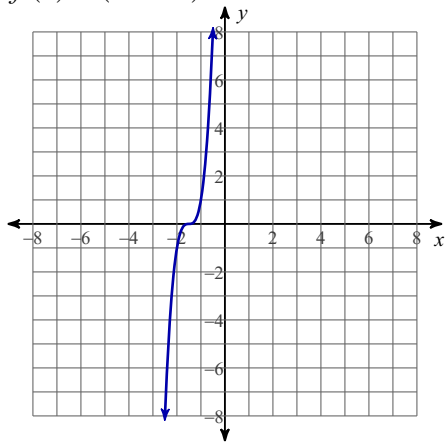
$$7) y = \sqrt{\frac{x}{4}} + 5$$



$$8) y = \sqrt{x} - 3$$



$$9) f(x) = (2x + 3)^3$$



$$10) g(x) = 2(x - 2)^3 - 5$$

