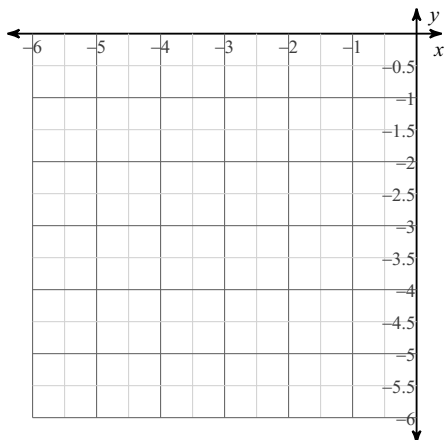


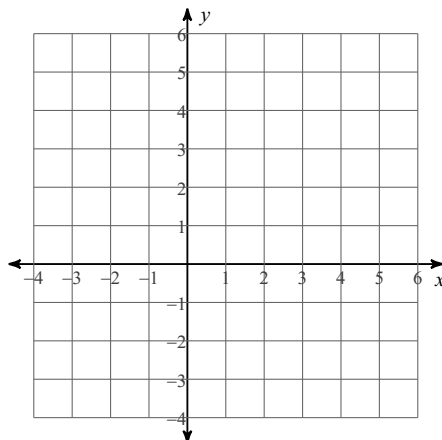
4.2 Part B Transformations

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

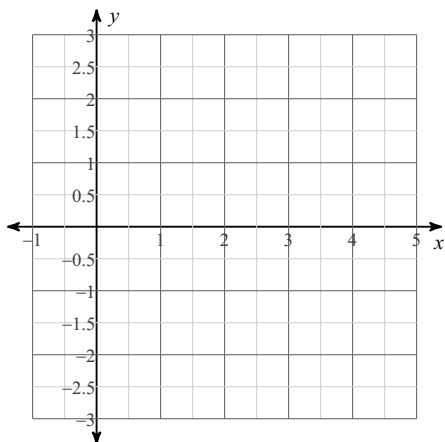
1) $f(x) = -(x + 3)^2 - 1$



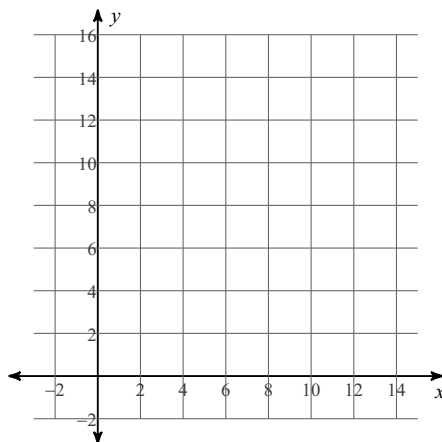
2) $f(x) = 2(x - 1)^2 - 3$



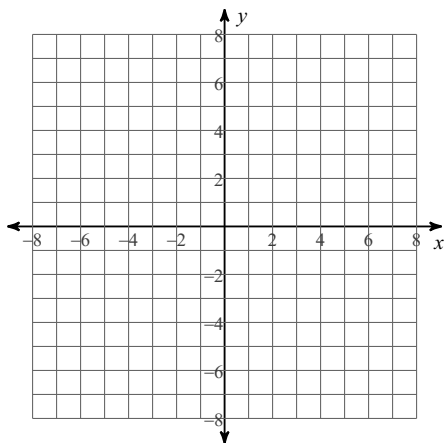
3) $f(x) = (x - 2)^2 - 2$



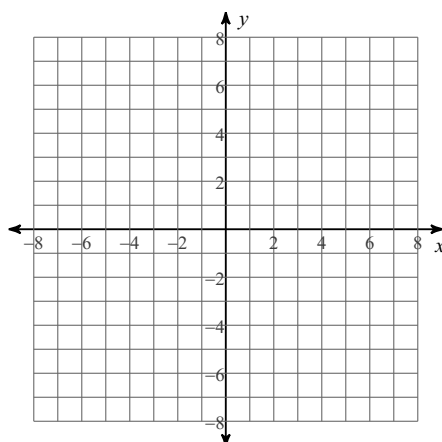
4) $f(x) = 4(x - 1)^2 - 1$



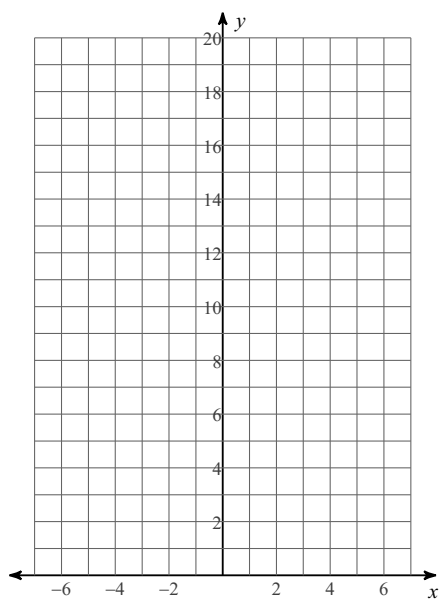
5) $y = 3\sqrt{x - 2}$



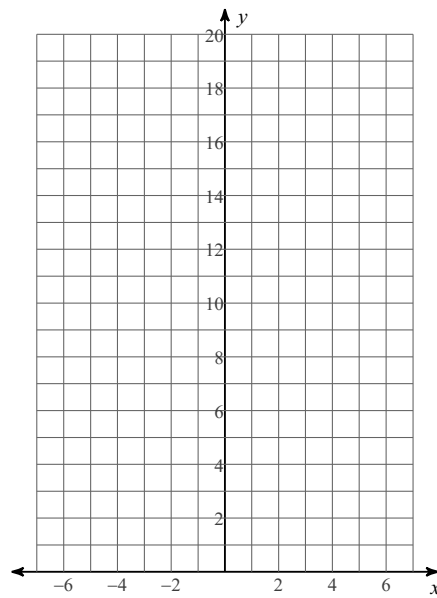
6) $y = \frac{3}{5}\sqrt{x - 3}$



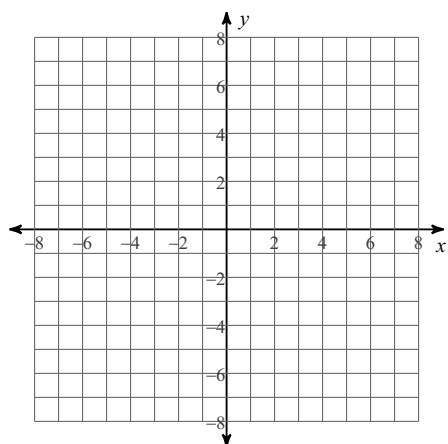
7) $y = 4 \cdot 2^x$



8) $y = \frac{1}{4} \cdot 7^x$



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



10) $y = \sqrt{4x + 24}$

