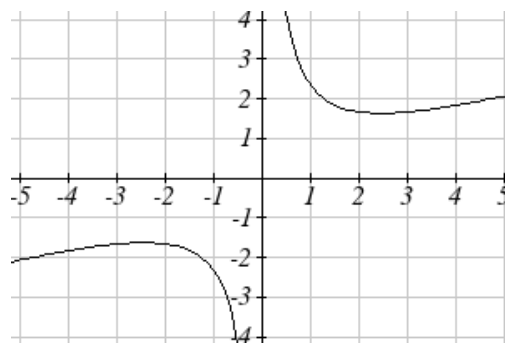


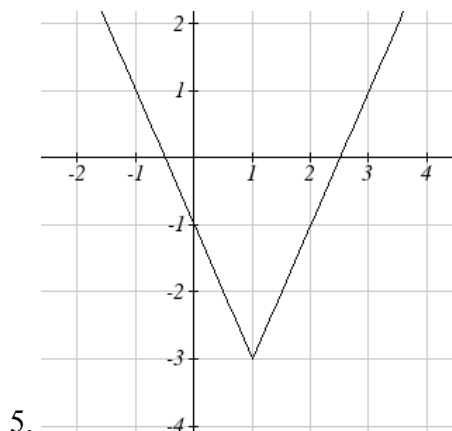
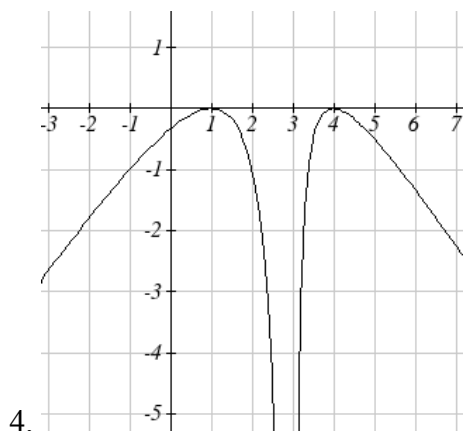
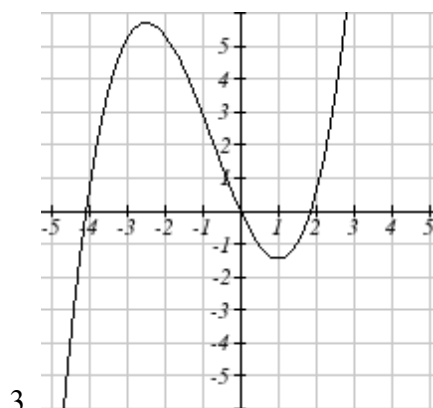
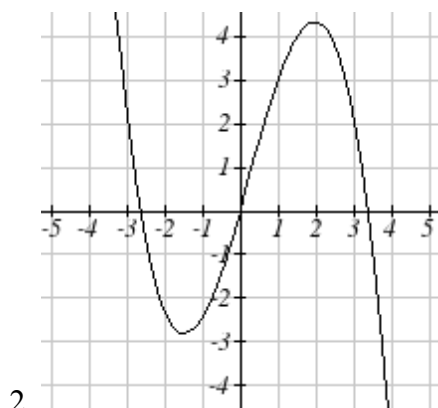
## HW 1.2.2: Function Increase and Decrease

1. Use the graph to estimate the intervals on which the

function is increasing,  $f(x) = \frac{2}{x} + \frac{x}{3}$ .



For each function graphed, estimate the intervals on which the function is increasing and decreasing.



Determine the interval(s) on which the function is increasing and decreasing.

6.  $f(x) = 2(x-3)^2 + 4$

7.  $g(x) = 3(x+1)^2 + 2$

8.  $h(x) = \sqrt{-x+9}$

9.  $n(x) = -4\sqrt{x} + 2$