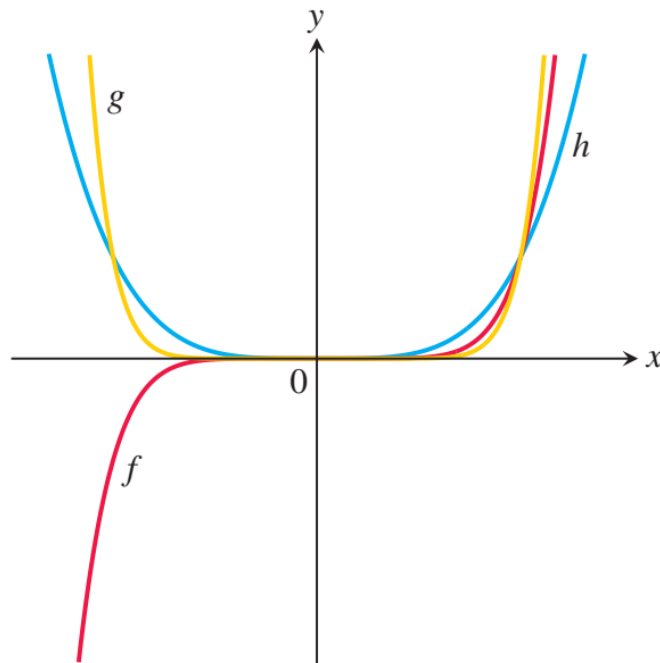## Exercise 69

In Exercises 69 and 70, match each equation with its graph. Do not use a graphing device, and give reasons for your answer.

<div align="center">

a. $y = x^4$ **b.** $y = x^7$ **c.** $y = x^{10}$

</div>

Solution

a. h is $y = x^4$ because the graph is symmetric with respect to the y-axis and does not rise the most steeply.

b. f is $y = x^7$ because the graph is symmetric with respect to the origin.

c. g is $y = x^{10}$ because the graph is symmetric with respect to the y-axis and rises the most steeply.