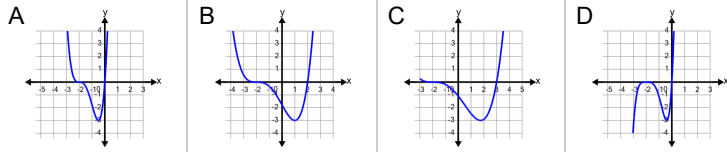




## Function Root Behaviour (Polynomials) - Behaviour to Graph

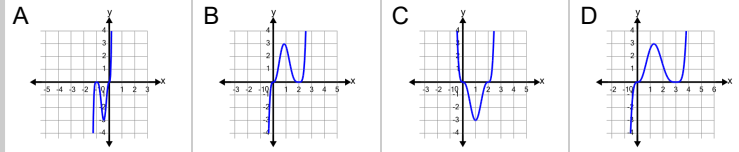
1 Which graph shows this x-intercept behaviour?

at  $x = -2$ : crosses the x-axis and flattens  
at  $x = 0$ : crosses the x-axis



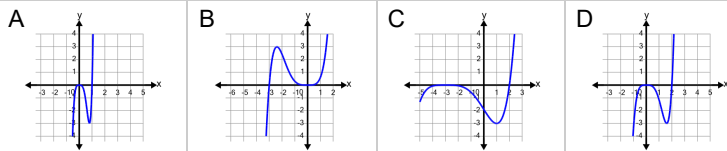
2 at  $x = 0$ : crosses the x-axis and flattens  
at  $x = 2$ : touches the x-axis without crossing and flattens

Which graph shows this x-intercept behaviour?



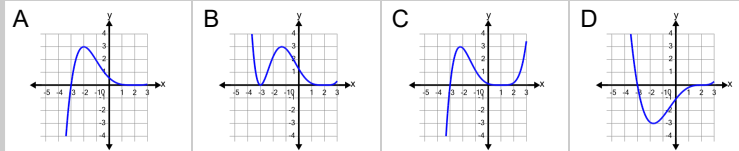
3 at  $x = 0$ : touches the x-axis without crossing and flattens  
at  $x = 2$ : crosses the x-axis

Which graph shows this x-intercept behaviour?



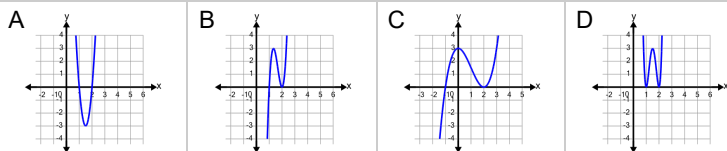
4 at  $x = -3$ : crosses the x-axis  
at  $x = 2$ : touches the x-axis without crossing and flattens

Which graph shows this x-intercept behaviour?



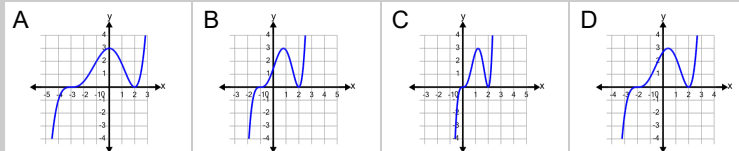
5 Which graph shows this x-intercept behaviour?

at  $x = 1$ : crosses the x-axis  
at  $x = 2$ : touches the x-axis without crossing



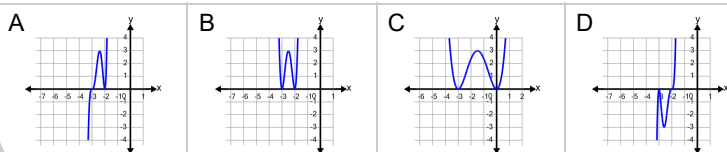
6 Which graph shows this x-intercept behaviour?

at  $x = -2$ : crosses the x-axis and flattens  
at  $x = 2$ : touches the x-axis without crossing



7 Which graph shows this x-intercept behaviour?

at  $x = -3$ : touches the x-axis without crossing  
at  $x = -2$ : touches the x-axis without crossing



8 at  $x = -3$ : crosses the x-axis  
at  $x = 3$ : touches the x-axis without crossing and flattens

Which graph shows this x-intercept behaviour?

