ansPRACTICEDerivSketch

$\int$ see below

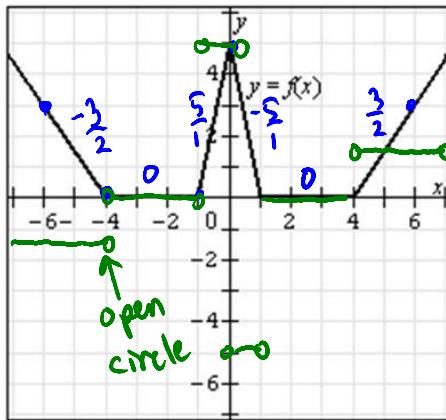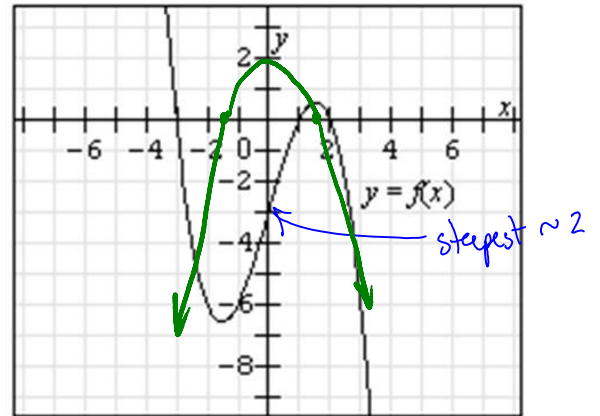## PRACTICE sketching derivatives

1. The graphs of several functions are given. Sketch the graph of each derivative.

a.

$y = f(x)$

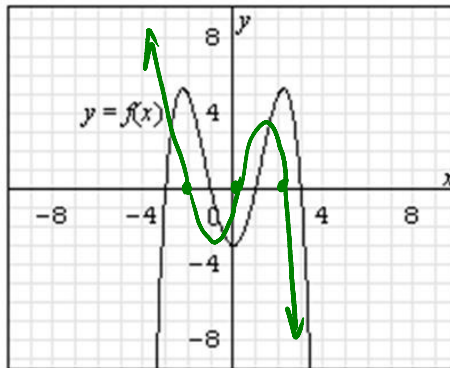$-\frac{3}{2}$ $\frac{5}{1}$ $-\frac{5}{1}$ $\frac{3}{2}$

0   0

open circle

b.

$y = f(x)$

steepest ~ 2

c.

$y = f(x)$

d.

$y = f(x)$

undefined

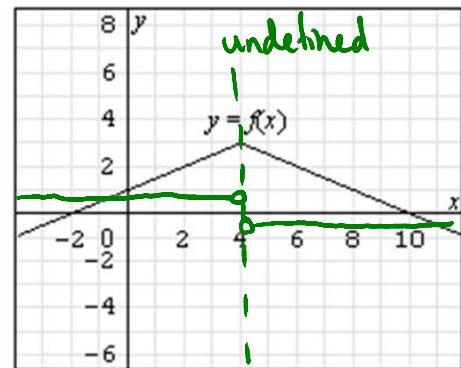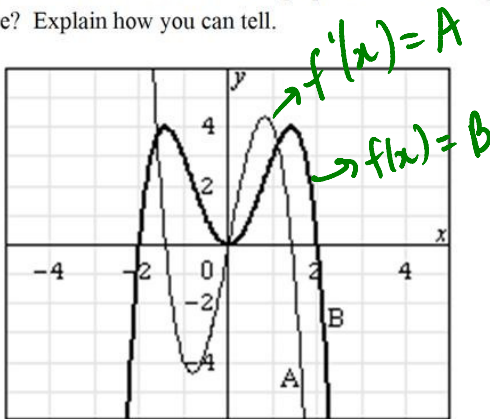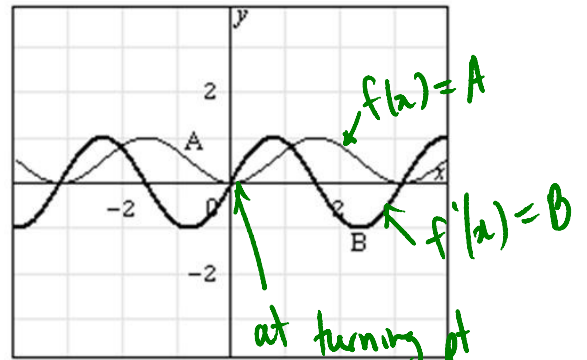2. A function $\curlyvee$ and its derivative $\curlyvee'$ are graphed on the same grid. Which graph is the function and which graph is the derivative? Explain how you can tell.

a.

$f'(x) = A$

$f(x) = B$

B

A

derivative function - is one degree less for polyn.

b.

$f(x) = A$

$f'(x) = B$

A

B

at turning pt slope is zero.