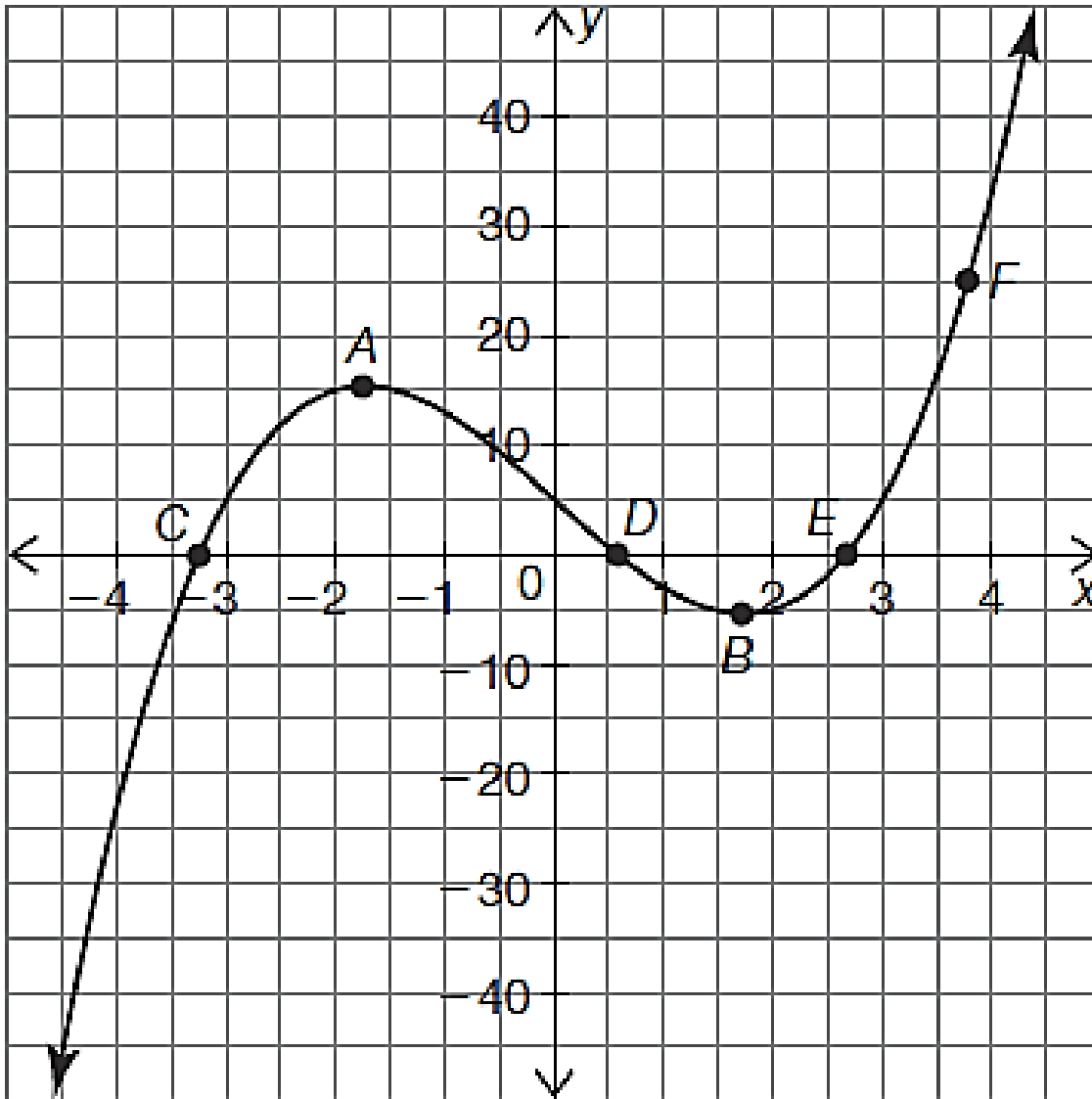
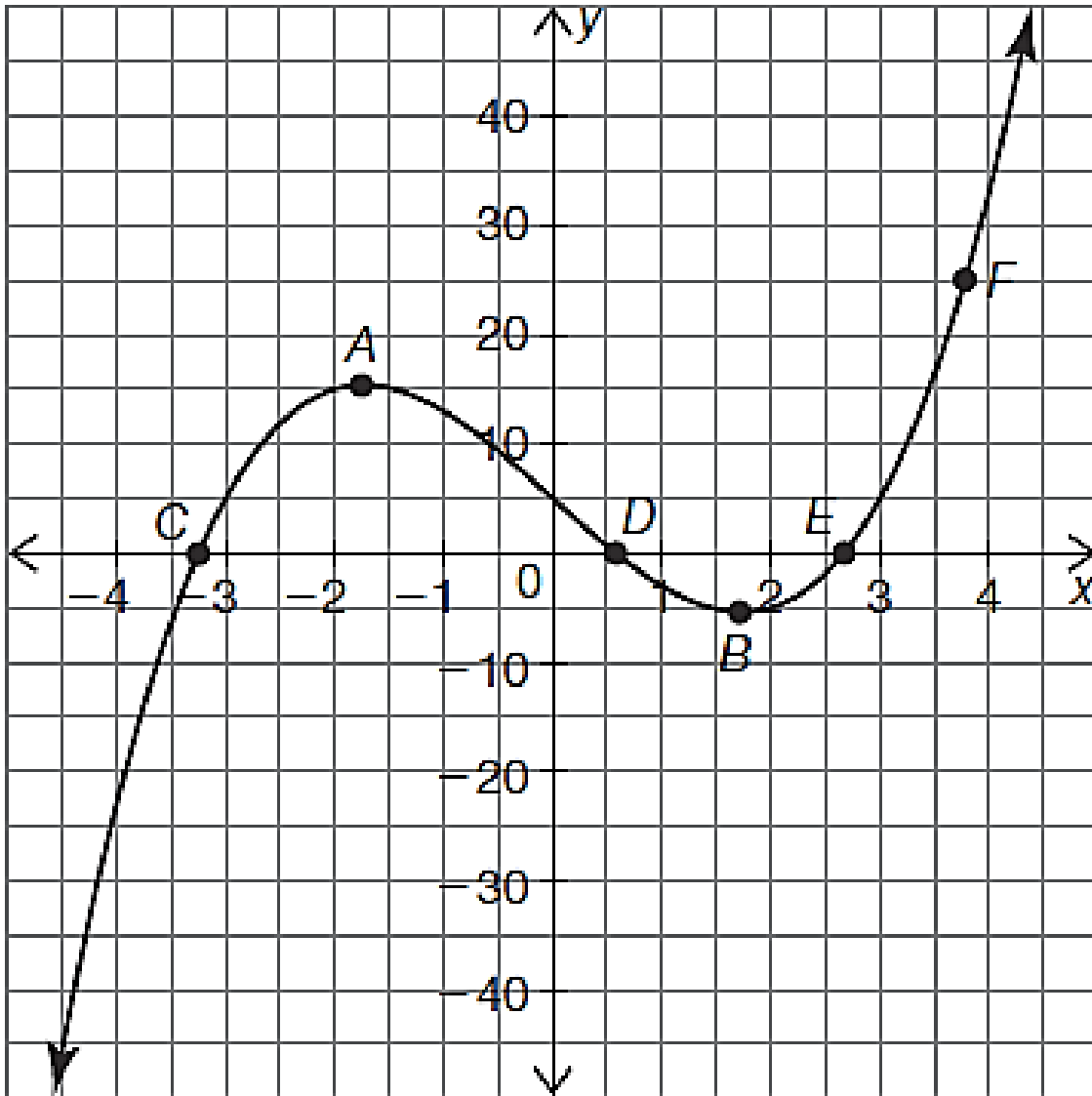


Station 1



Find the
rate of
change
between
point
A and C

Station 2



Find the
rate of
change
between
point D
and E

Station 3

The table below shows the amount of carbon dioxide in the Earth's atmosphere for selected years. (Source: the Weather Channel). Find the average rate of change from 1968 to 2003.

Year	CO ₂ in Atmosphere (ppm)
1968	324.14
1983	343.91
1998	367.68
2003	376.68
2008	385.60

Station 4

Imagine that you are shopping for a vehicle. One of the cars you are considering sells for \$22 000 new. However, like most vehicles, this car loses value, or depreciates, as it ages. The table to the right shows the value of the car over a 10-year period.

Find the average rate of change from year 3 to year 5.

Time (years)	Value (\$)
0	22 000
1	16 200
2	14 350
3	11 760
4	8 980
5	7 820
6	6 950
7	6 270
8	5 060
9	4 380
10	4 050

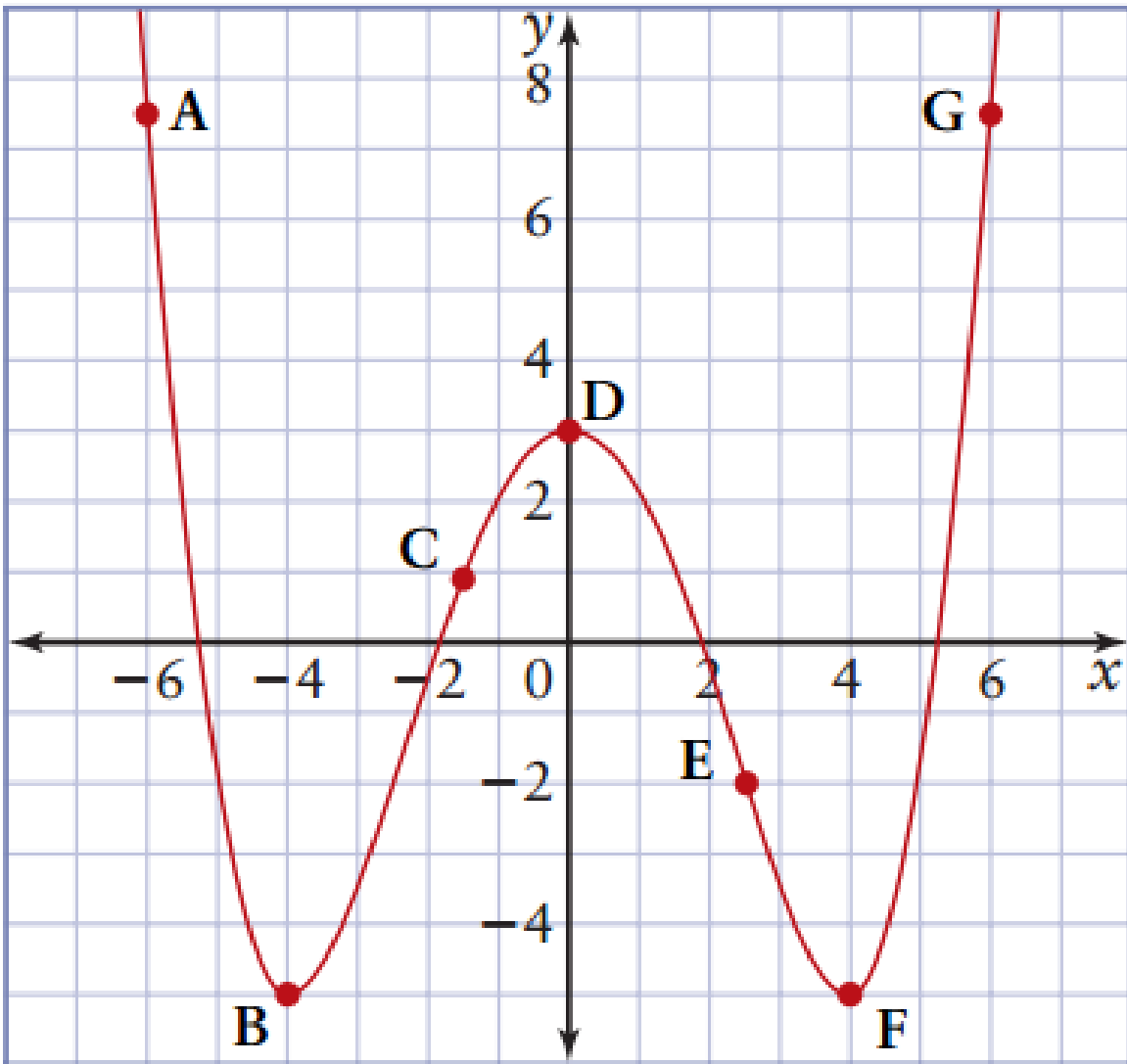
Station 5

Imagine that you are shopping for a vehicle. One of the cars you are considering sells for \$22 000 new. However, like most vehicles, this car loses value, or depreciates, as it ages. The table to the right shows the value of the car over a 10-year period.

Find the average rate of change from year 0 to year 10.

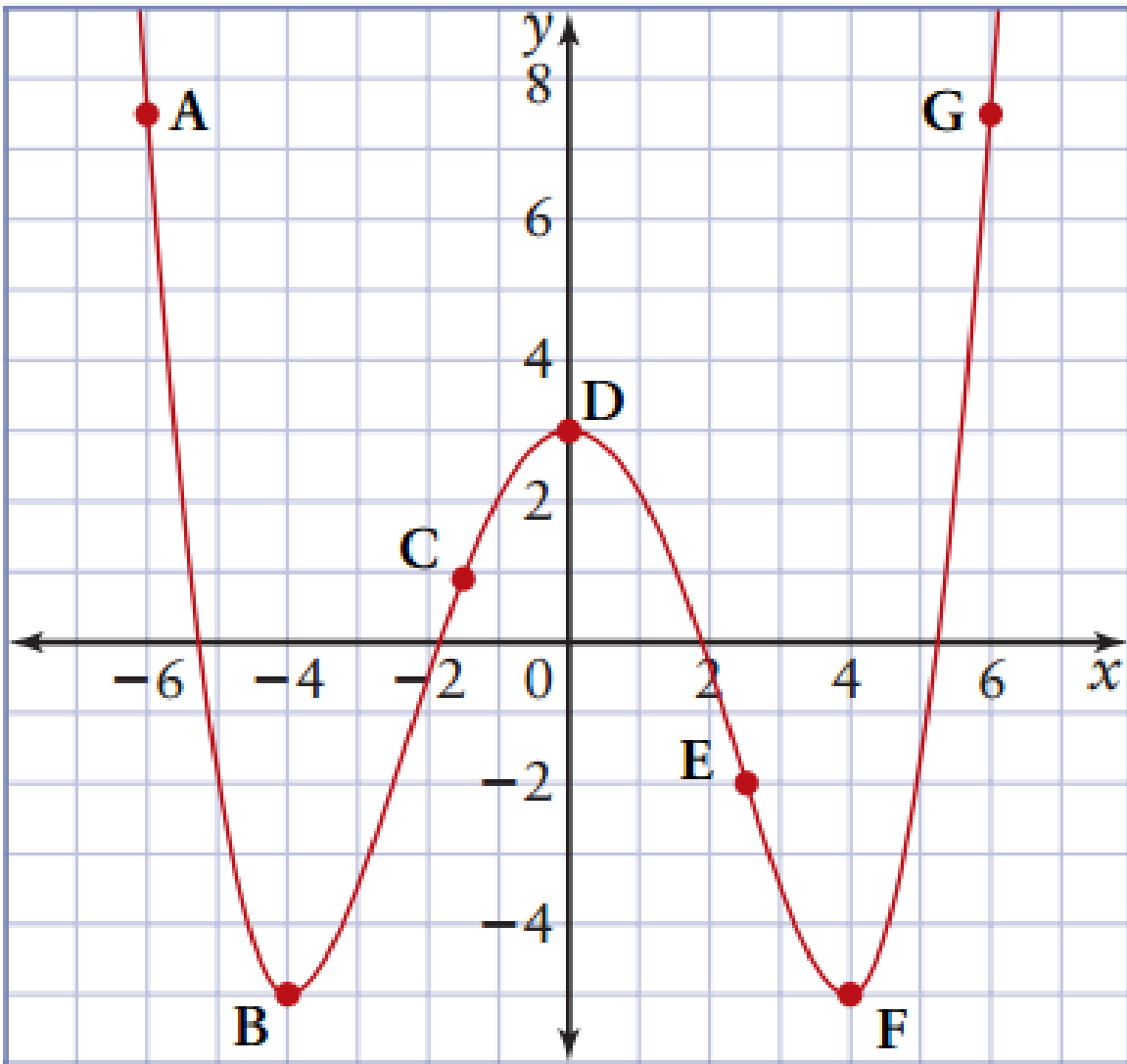
Time (years)	Value (\$)
0	22 000
1	16 200
2	14 350
3	11 760
4	8 980
5	7 820
6	6 950
7	6 270
8	5 060
9	4 380
10	4 050

Station 6



Find the
rate of
change
between
point
C and D

Station 7



Find the
rate of
change
between
point
D and F

Station 8

The table shows the height, H , of water being poured into a cone shaped cup at time, t . Find the average rate of change from 3 to 9 seconds.

t (s)	H (cm)
0	0
1	2.48
2	3.13
3	3.58
4	3.94
5	4.24
6	4.51
7	4.75
8	4.96
9	5.16
10	5.35

