$y = x$

$y = -x$

$y = 2x$

$y = -2x$

$y = \frac{1}{2}x + 2$

$y = -\frac{1}{4}x - 2\frac{1}{2}$

$y = 3x - 4$

$y = -2x + 2$

A2

A1

A4

A3

A6

A5

A8

A7

x	-2	-1	0	1	2
y	-2	-1	0	1	2

x	-2	-1	0	1	2
y	2	1	0	-1	-2

x	-2	-1	0	1	2
y	-4	-2	0	2	4

x	-2	-1	0	1	2
y	4	2	0	-2	-4

x	-2	-1	0	1	2
y	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3

x	-2	-1	0	1	2
y	-2	$-2\frac{1}{4}$	$-2\frac{1}{2}$	$-2\frac{3}{4}$	-3

x	-2	-1	0	1	2
y	-10	-7	-4	-1	2

x	-2	-1	0	1	2
y	6	4	2	0	-2

A2

A1

A4

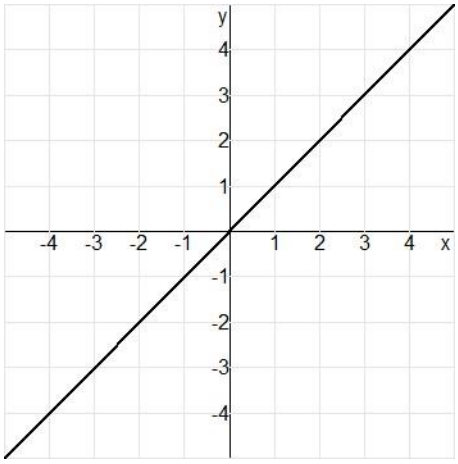
A3

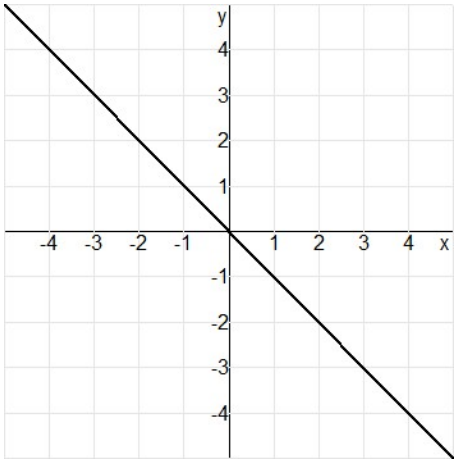
A6

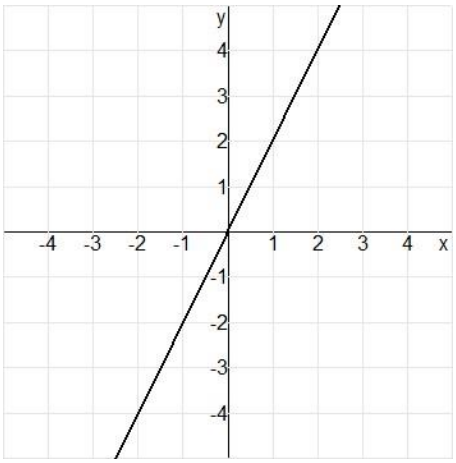
A5

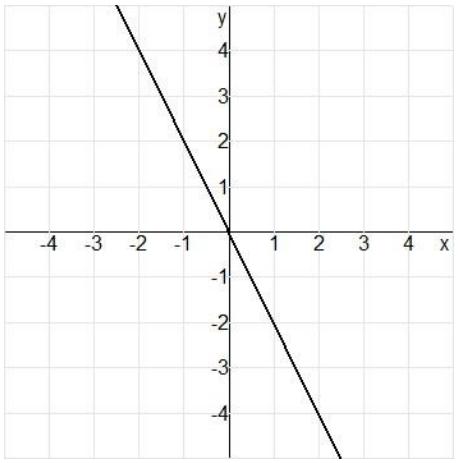
A8

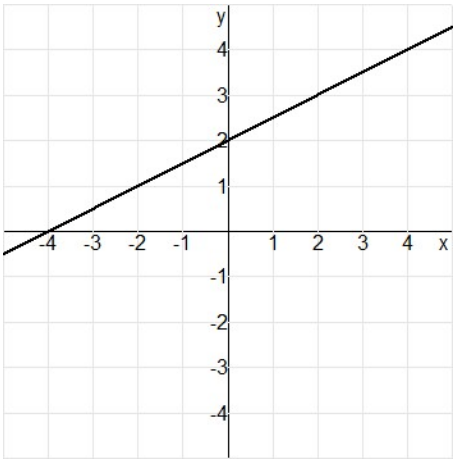
A7

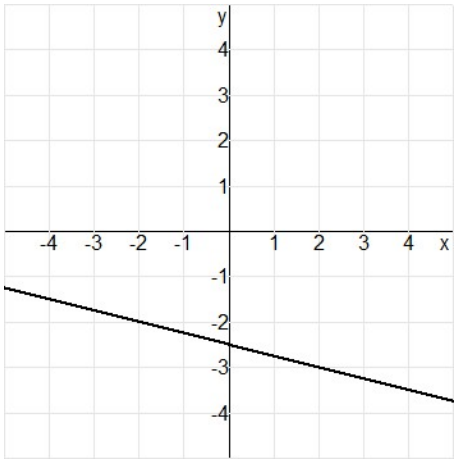

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

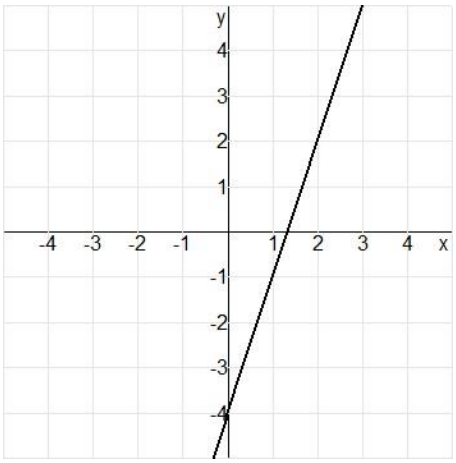

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

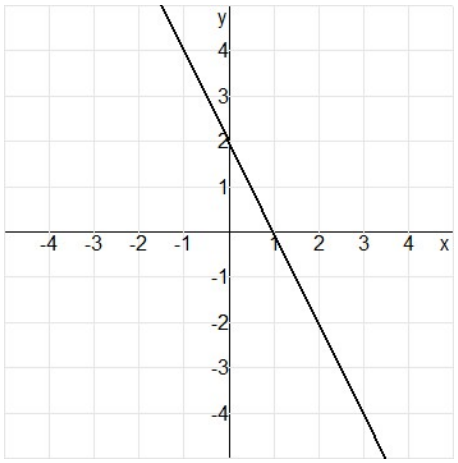

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

A2

A1

A4

A3

A6

A5

A8

A7

$$y = x^2$$

$$y = -x^2$$

$$y = 2x^2$$

$$y = -3x^2$$

$$y = \frac{1}{2}x^2 - 2$$

$$y = -\frac{1}{4}x^2 + 2$$

$$y = 3x^2 - 4$$

$$y = -2x^2 + 2$$

B2

B1

B4

B3

B6

B5

B8

B7

x	-2	-1	0	1	2
y	4	1	0	1	4

x	-2	-1	0	1	2
y	-4	-1	0	-1	-4

x	-2	-1	0	1	2
y	8	2	0	2	8

x	-2	-1	0	1	2
y	-12	-3	0	-3	-12

x	-2	-1	0	1	2
y	0	$-1\frac{1}{2}$	-2	$-1\frac{1}{2}$	0

x	-2	-1	0	1	2
y	1	$1\frac{3}{4}$	2	$1\frac{3}{4}$	1

x	-2	-1	0	1	2
y	8	-1	-4	-1	8

x	-2	-1	0	1	2
y	-6	0	2	0	-6

B2

B1

B4

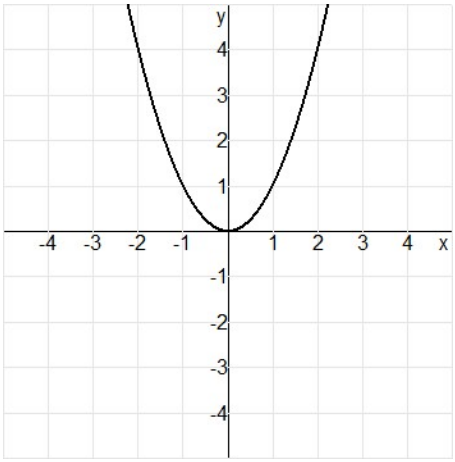
B3

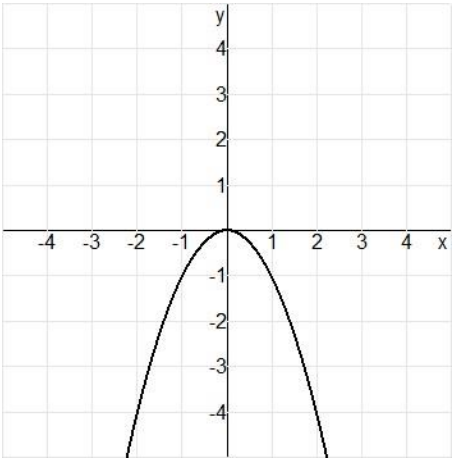
B6

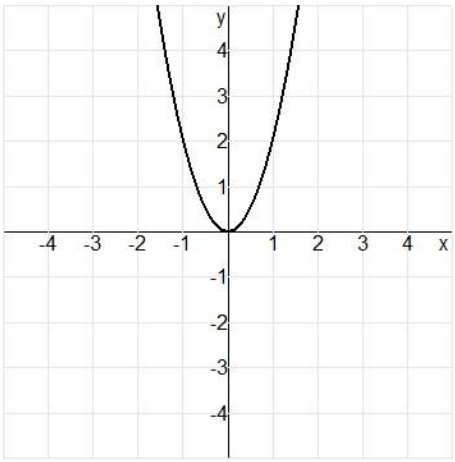
B5

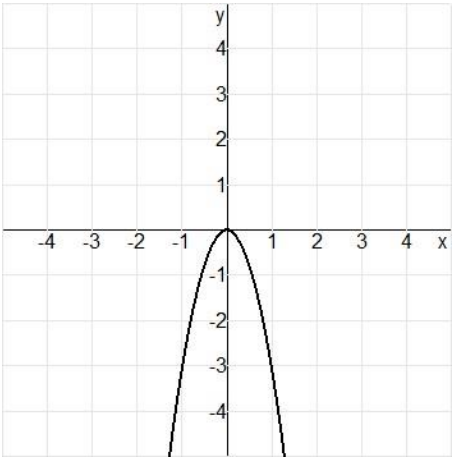
B8

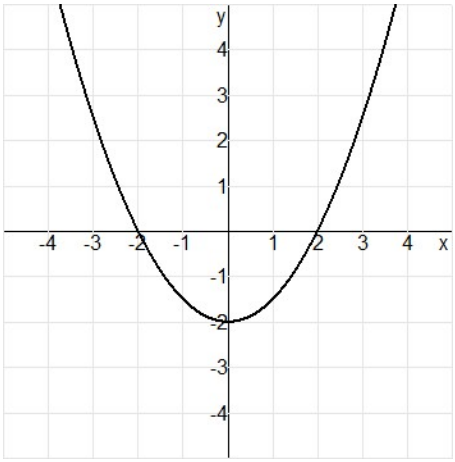
B7

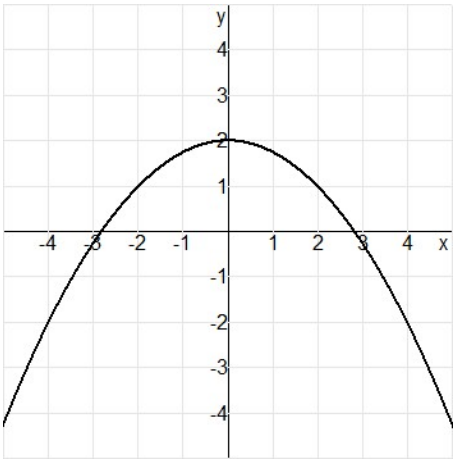

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

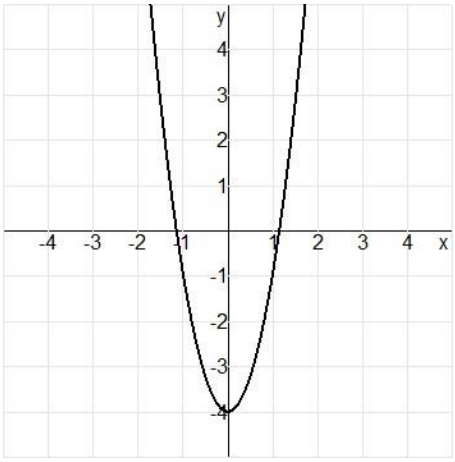

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

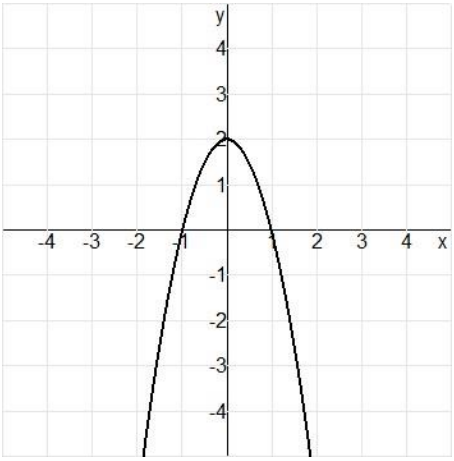

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

B2

B1

B4

B3

B6

B5

B8

B7

$$y = 2^x$$

$$y = 3^x$$

$$y = 2 \cdot 2^x$$

$$y = \frac{1}{2} \cdot 2^x$$

$$y = \left(\frac{1}{2}\right)^x$$

$$y = \left(\frac{1}{4}\right)^x$$

$$y = 4 \cdot \left(\frac{1}{2}\right)^x$$

$$y = 3 \cdot \left(\frac{1}{3}\right)^x$$

C2

C1

C4

C3

C6

C5

C8

C7

x	-2	-1	0	1	2
y	$\frac{1}{4}$	$\frac{1}{2}$	1	2	4

x	-2	-1	0	1	2
y	$\frac{1}{9}$	$\frac{1}{3}$	1	3	9

x	-2	-1	0	1	2
y	$\frac{1}{2}$	1	2	4	8

x	-2	-1	0	1	2
y	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	1	2

x	-2	-1	0	1	2
y	4	2	1	$\frac{1}{2}$	$\frac{1}{4}$

x	-2	-1	0	1	2
y	16	4	1	$\frac{1}{4}$	$\frac{1}{16}$

x	-2	-1	0	1	2
y	16	8	4	2	1

x	-2	-1	0	1	2
y	27	9	3	1	$\frac{1}{3}$

C2

C1

C4

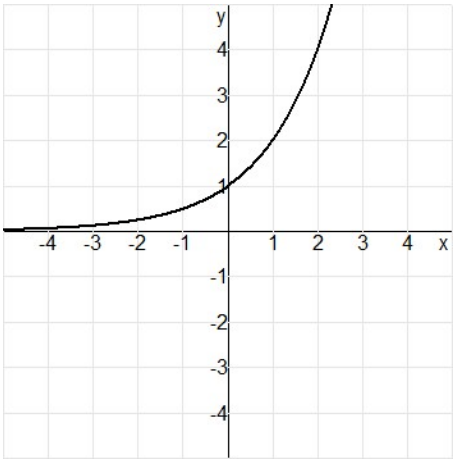
C3

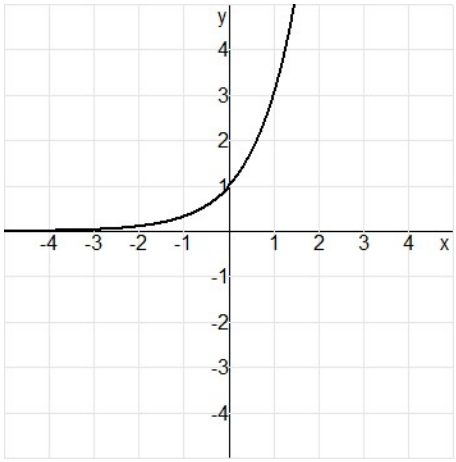
C6

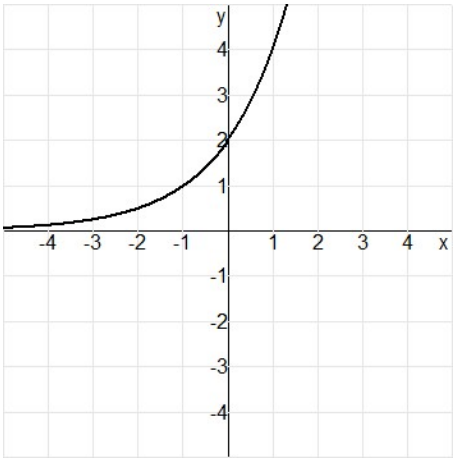
C5

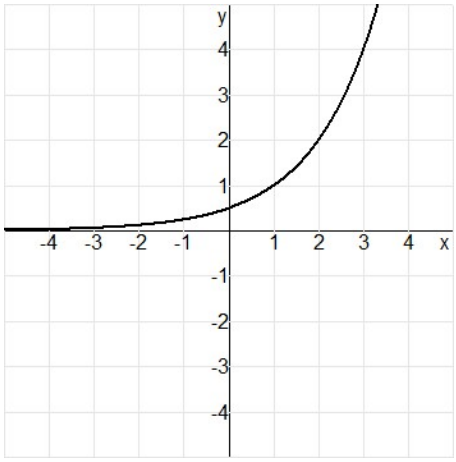
C8

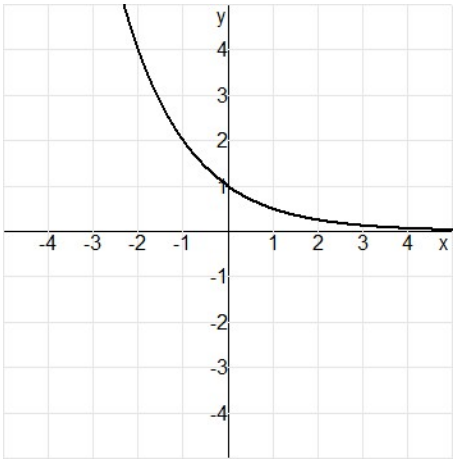
C7

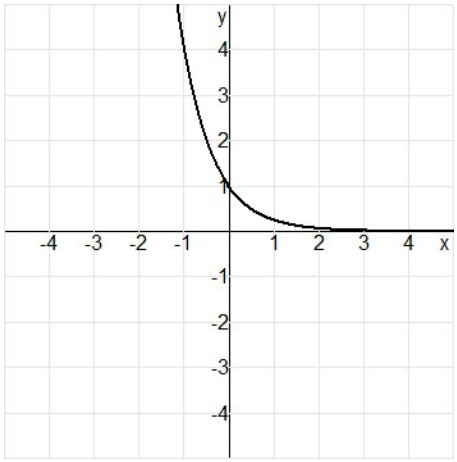

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

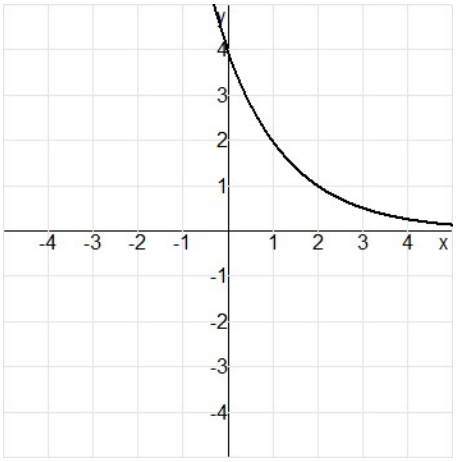

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

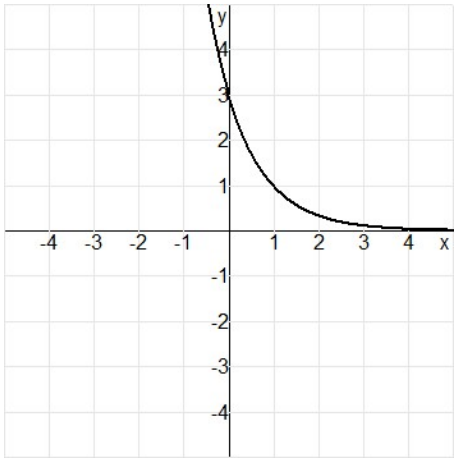

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

C2

C1

C4

C3

C6

C5

C8

C7

$$y = x^3$$

$$y = -x^3$$

$$y = \frac{1}{8}x^5$$

$$y = -\frac{1}{16}x^5$$

$$y = x^4$$

$$y = -\frac{1}{2}x^4$$

$$y = \frac{1}{32}x^6$$

$$y = -\frac{1}{64}x^6$$

D2

D1

D4

D3

D6

D5

D8

D7

x	-2	-1	0	1	2
y	-8	-1	0	1	8

x	-2	-1	0	1	2
y	8	1	0	-1	-8

x	-2	-1	0	1	2
y	-4	$-\frac{1}{8}$	0	$\frac{1}{8}$	4

x	-2	-1	0	1	2
y	2	$\frac{1}{16}$	0	$-\frac{1}{16}$	-2

x	-2	-1	0	1	2
y	16	1	0	1	16

x	-2	-1	0	1	2
y	-8	$-\frac{1}{2}$	0	$-\frac{1}{2}$	-8

x	-2	-1	0	1	2
y	2	$\frac{1}{32}$	0	$\frac{1}{32}$	2

x	-2	-1	0	1	2
y	-1	$-\frac{1}{64}$	0	$-\frac{1}{64}$	-1

D2

D1

D4

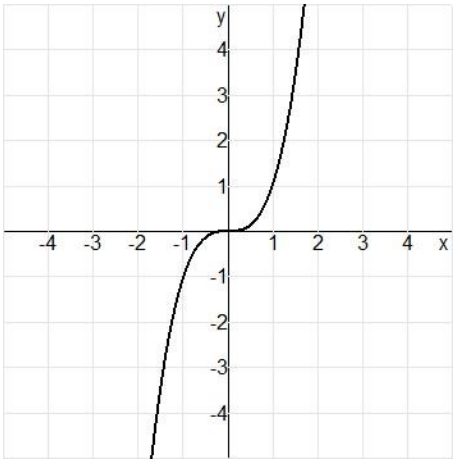
D3

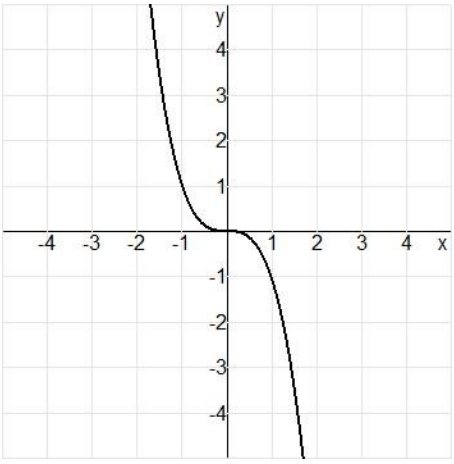
D6

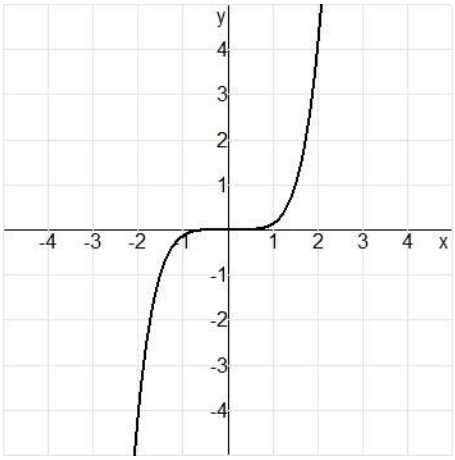
D5

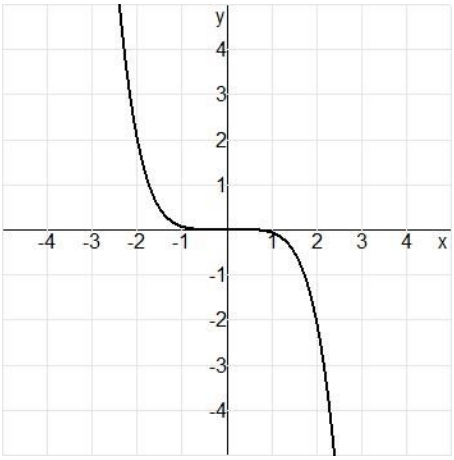
D8

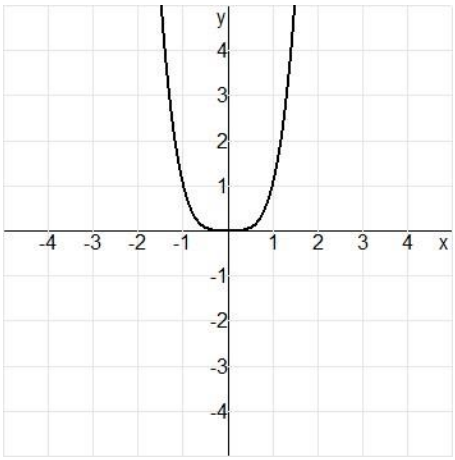
D7

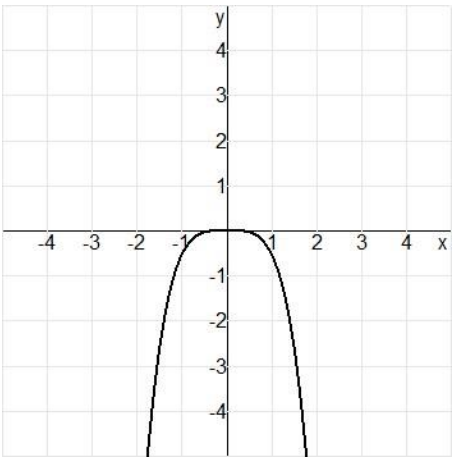

y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4

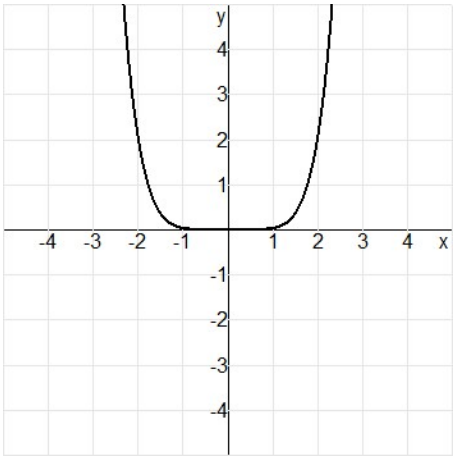

y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4

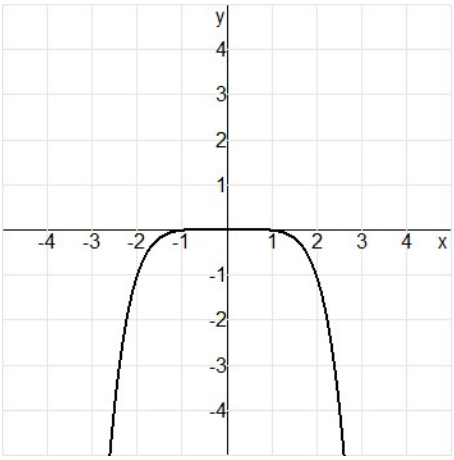

y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4

D2

D1

D4

D3

D6

D5

D8

D7

$$xy = 6$$

$$xy = 4$$

$$y = \frac{2}{x}$$

$$x = \frac{1}{y}$$

$$periode = 4$$
$$evenwichtsstand = 3$$
$$amplitude = 2$$

$$periode = 4$$
$$evenwichtsstand = 2$$
$$amplitude = 1$$

$$periode = 2$$
$$evenwichtsstand = 1$$
$$amplitude = 2$$

$$periode = 8$$
$$evenwichtsstand = 3$$
$$amplitude = 2$$

E2

E1

E4

E3

F2

F1

F4

F3

x	-2	-1	0	1	2
y	-3	-6	b.n.	6	3

b.n.: bestaat niet

x	-2	-1	0	1	2
y	-2	-4	b.n.	4	2

b.n.: bestaat niet

x	-2	-1	0	1	2
y	-1	-2	b.n.	2	1

b.n.: bestaat niet

x	-2	-1	0	1	2
y	$-\frac{1}{2}$	-1	b.n.	1	$\frac{1}{2}$

b.n.: bestaat niet

x	-2	-1	0	1	2
y	3	1	3	5	3

x	-2	-1	0	1	2
y	3	2	1	2	3

x	-2	-1	0	1	2
y	1	1	1	1	1

x	-2	-1	0	1	2
y	5	3,7*	3	2,3*	1

*exact: $3 + \frac{1}{2}\sqrt{2}$ en $3 - \frac{1}{2}\sqrt{2}$

E2

E1

E4

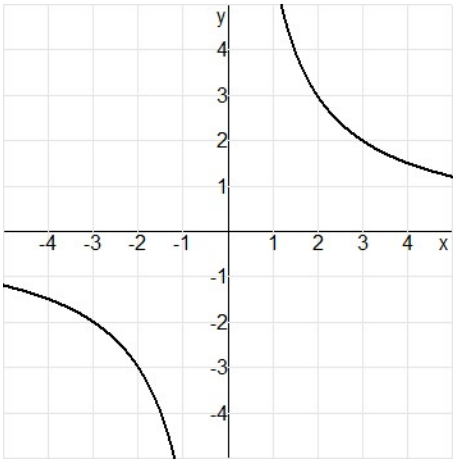
E3

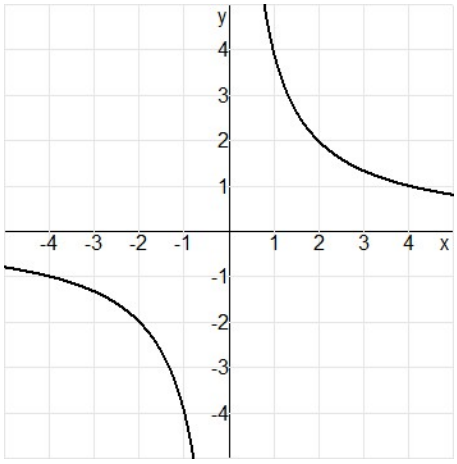
F2

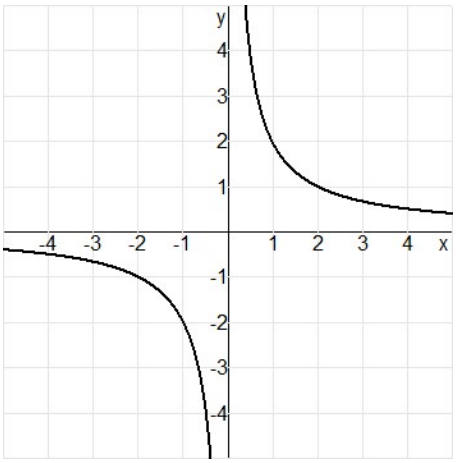
F1

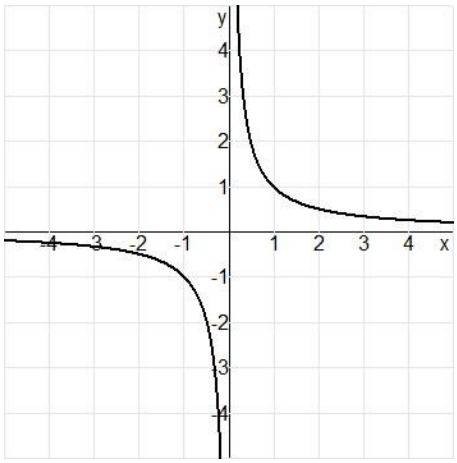
F4

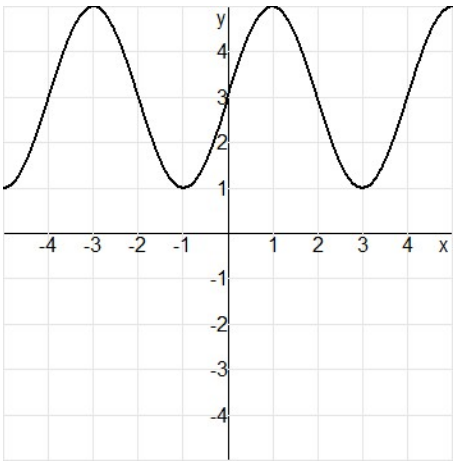
F3

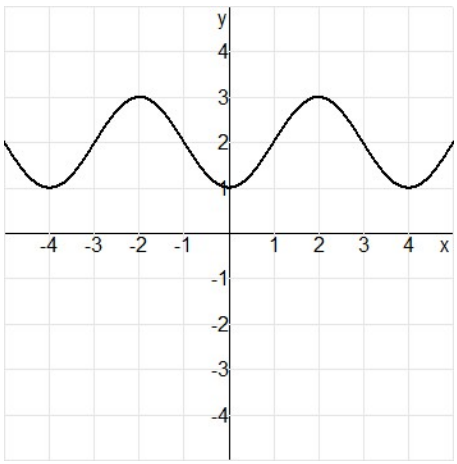

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

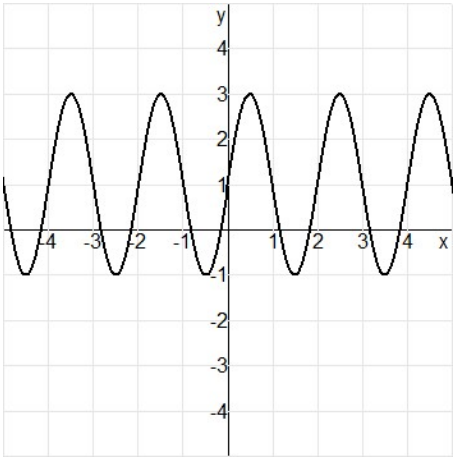

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

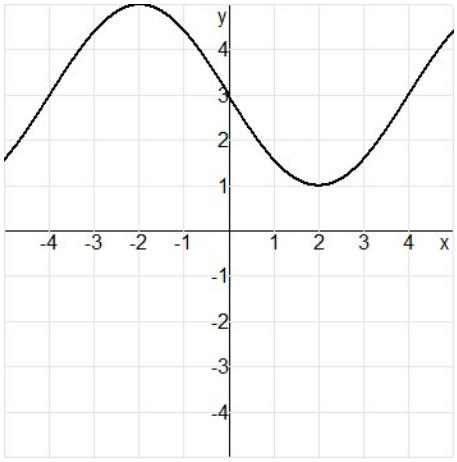

y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4


y
4
3
2
1
-4
-3
-2
-1
1
2
3
4
x
-1
-2
-3
-4

E2

E1

E4

E3

F2

F1

F4

F3

$$y = \frac{1}{x-1} + 2$$

$$y = \frac{1}{x}$$

$$y = \frac{1}{x+3} - 2$$

$$y = \frac{1}{x+3} + 2$$

$$y = \frac{1}{x+1} - 3$$

$$y = \frac{4}{x}$$

G2

G1

G4

G3

G6

G5

x	-2	-1	0	1	2
y	$1\frac{2}{3}$	$1\frac{1}{2}$	1	k.n.	3

x	-2	-1	0	1	2
y	$-\frac{1}{2}$	-1	k.n.	1	$\frac{1}{2}$

x	-2	-1	0	1	2
y	-1	$-1\frac{1}{2}$	$-1\frac{2}{3}$	$-1\frac{3}{4}$	$-1\frac{4}{5}$

x	-2	-1	0	1	2
y	3	$2\frac{1}{2}$	$2\frac{1}{3}$	$2\frac{1}{4}$	$2\frac{1}{5}$

x	-2	-1	0	1	2
y	-4	k.n.	-2	$-2\frac{1}{2}$	$-2\frac{2}{3}$

x	-2	-1	0	1	2
y	-2	-4	k.n.	4	2

G2

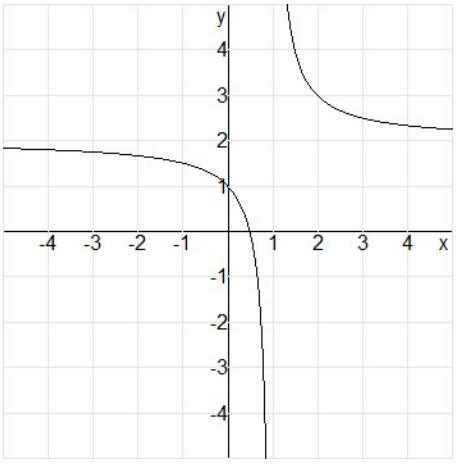
G1

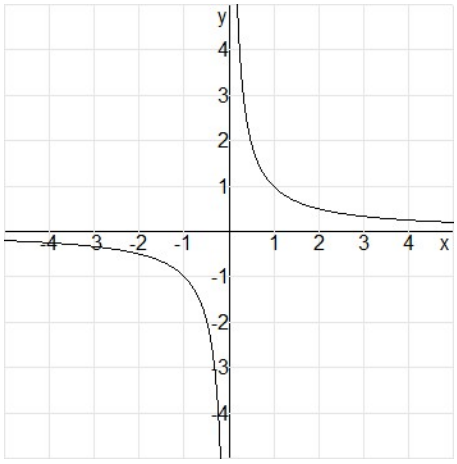
G4

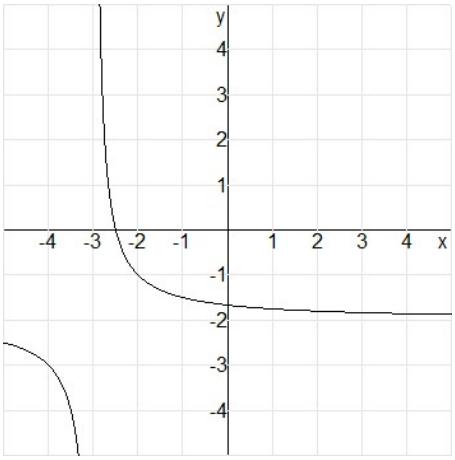
G3

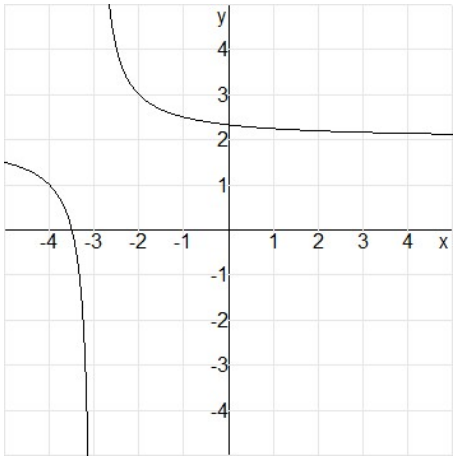
G6

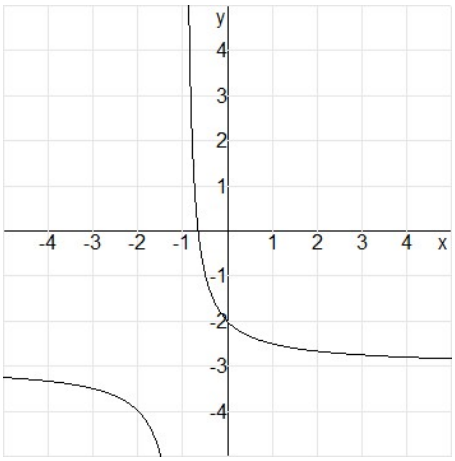
G5

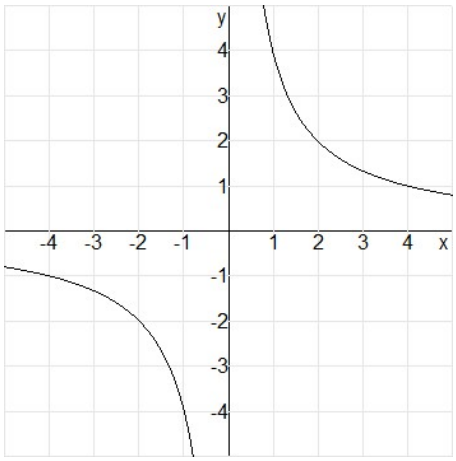

y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4


y
4
3
2
1
-4 -3 -2 -1 1 2 3 4 x
-1
-2
-3
-4

G2

G1

G4

G3

G6

G5

Lineair verband

Kwadratisch verband

Exponentieel verband

Machtsverband

Omgekeerd evenredig verband

Periodiek verband

A
B
C
D
E
F

Machtsverband
Machtsverband
Machtsverband
Machtsverband
Machtsverband
Machtsverband

D
D
D
D
D
D

http://home.wxs.nl/~hklein/wiskit/download.htm

Grafieken geproduceerd met Wiskit 21 met onderstaande code en geëxporteerd als JPG:

```
%comment
xmin=-5
xmax=5
ymax=5
ymin=-5

%labels worden later aangebracht
xlabel=
ylabel=
asopties=Rsg

%vul hier de afstand tussen de getallen op
%de assen in
proc assen(1;1)
tekenkleur(255)
Fdikte=2

F=3+2*sin(((x-4)*2*pi)/8)

tekstc(4.8;0;x)
tekstc(-0.15;5;y)
eind

defproc assen(xinterval;yinterval)
xinterval:=abs(xinterval)
yinterval:=abs(yinterval)
eigenassen(xinterval;yinterval)
for(i;xinterval;xmax-xinterval;xinterval)
uitvoer2(i;0;i;ct)
next
for(i;yinterval;ymax-yinterval;yinterval)
uitvoer2(0;i;i;rc)
next
for(i;-xinterval;xmin+xinterval;-xinterval)
uitvoer2(i;0;i;ct)
next
for(i;-yinterval;ymin+yinterval;-yinterval)
uitvoer2(0;i;i;rc)
next
endproc
```