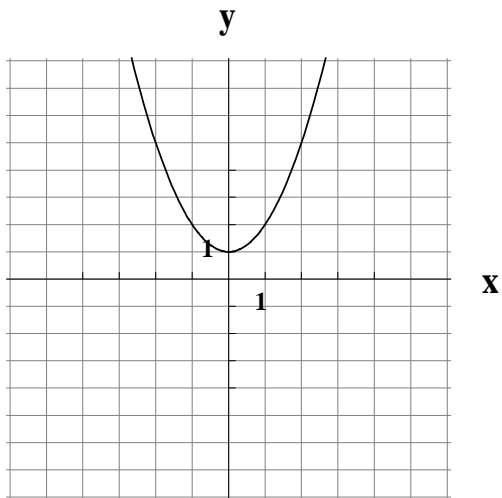


## Funkce – souhrn

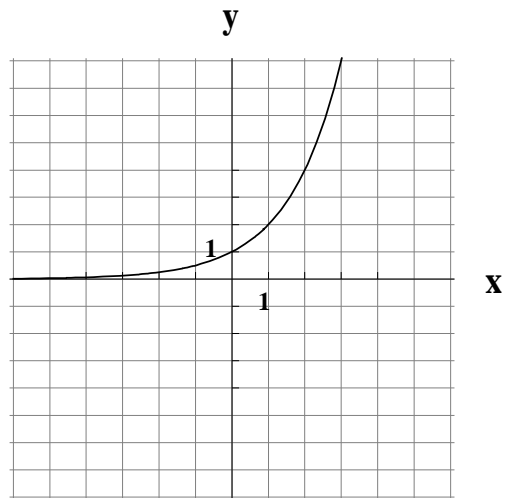
1) Ke každé funkci dané předpisem 1. – 4. najděte příslušný graf v obrázcích A – F.

1.  $f : y = 2 - x$ , 2.  $f : y = -\frac{2}{x}$ , 3.  $f : y = x^2 + 1$ , 4.  $f : y = 2^x$

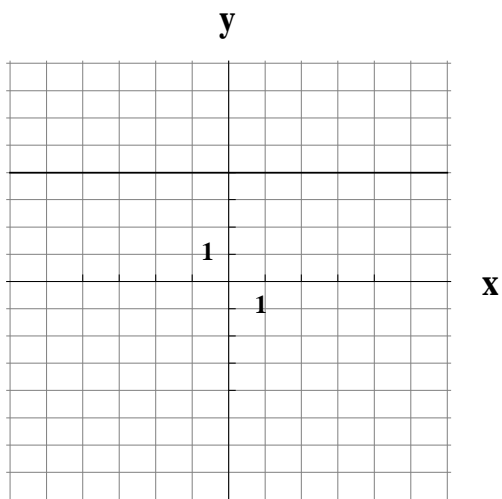
A



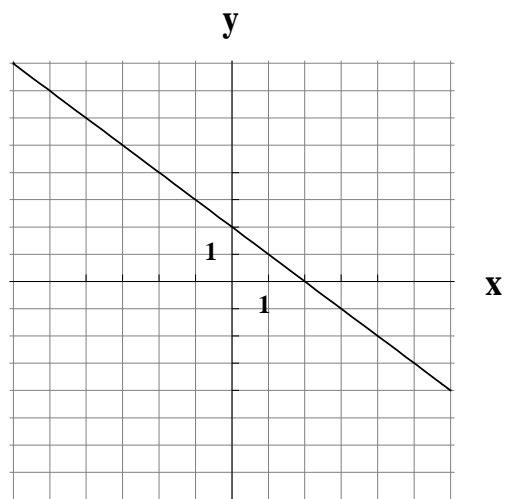
B



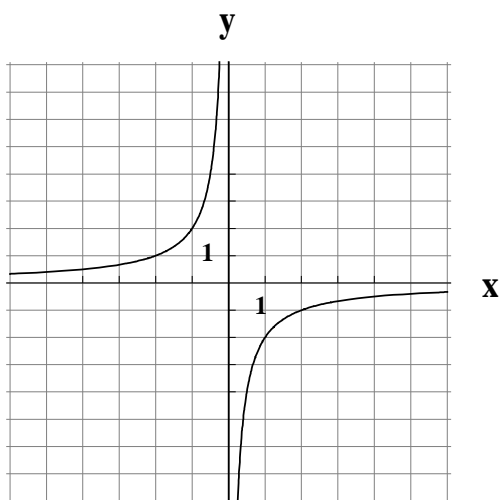
C



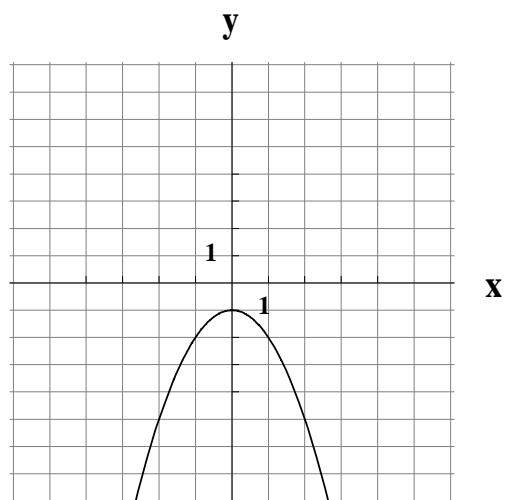
D



E

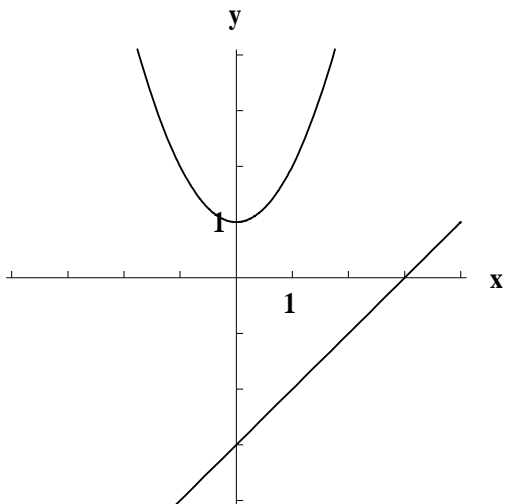


F

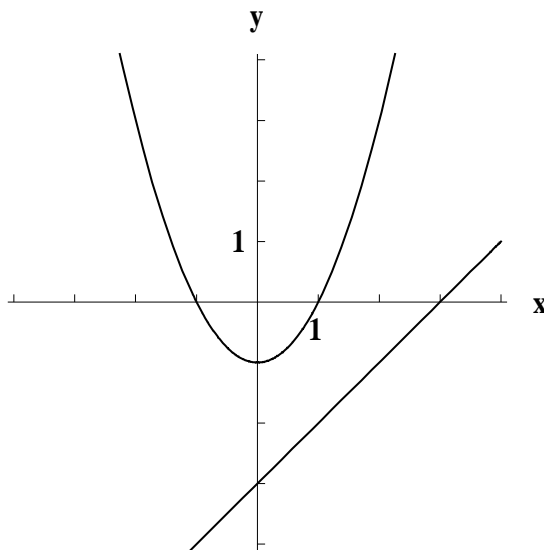


2) Jsou dány funkce:  $f : y = x - 3$ ;  $g : y = -x^2 + 1$ . Na kterém z obrázků A – E jsou správně zobrazeny grafy obou funkcí?

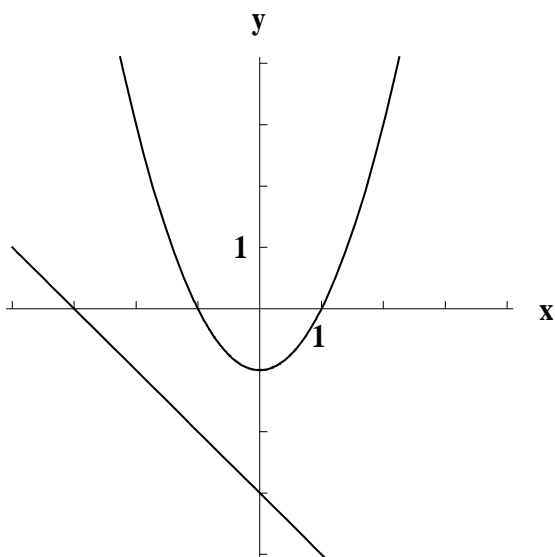
**A**



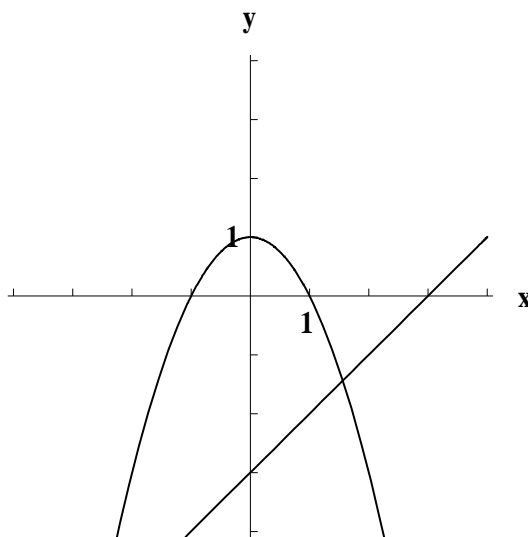
**B**



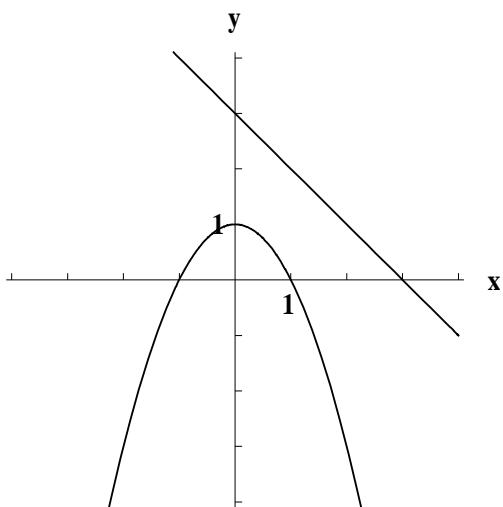
**C**



**D**



**E**



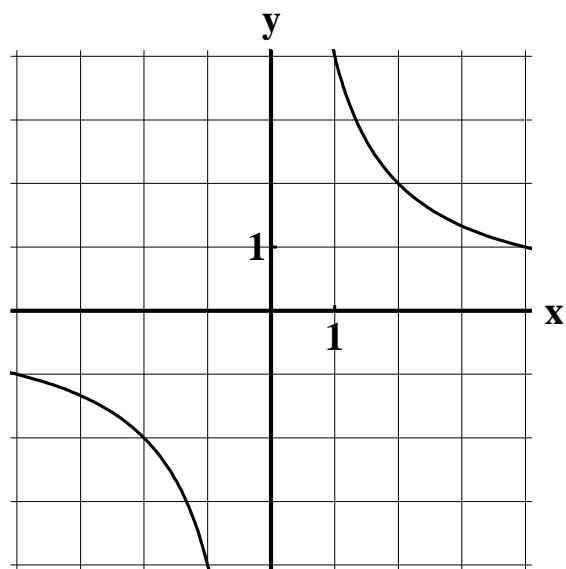
**F**



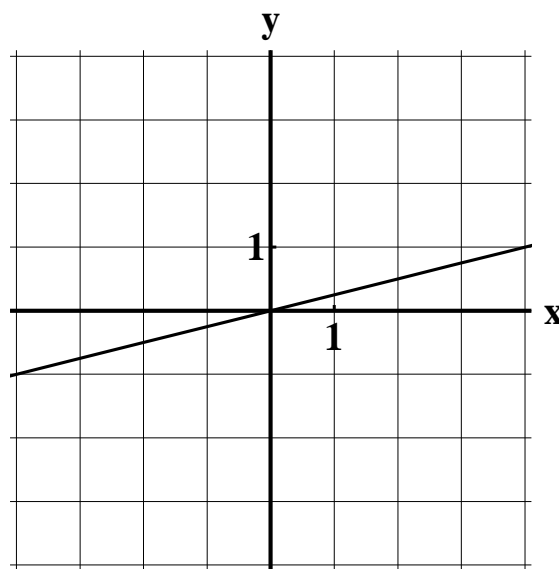
3) Přiřaďte ke každému předpisu funkce odpovídající graf funkce.

a)  $y = 4^x$ , b)  $y = \frac{4}{x}$ , c)  $y = \frac{x}{4}$ , d)  $y = \log_4 x$

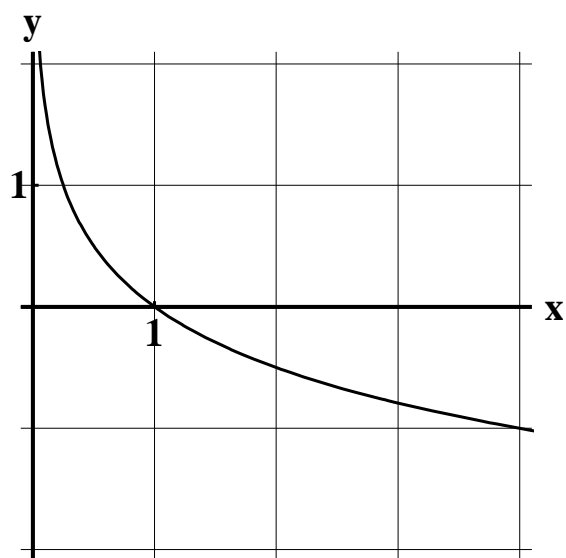
A)



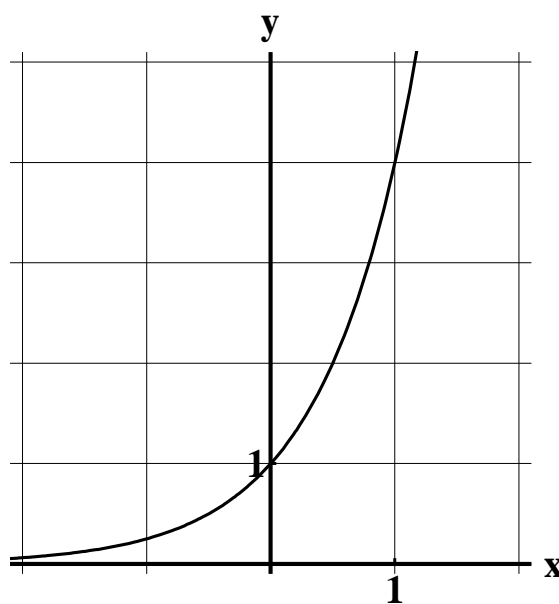
B)



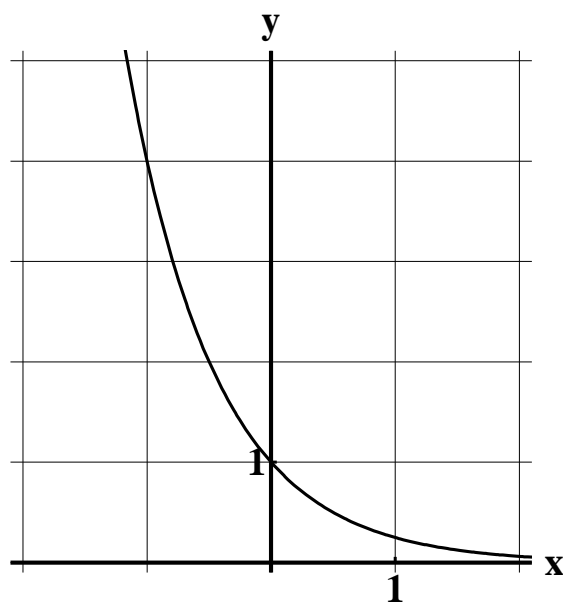
C)



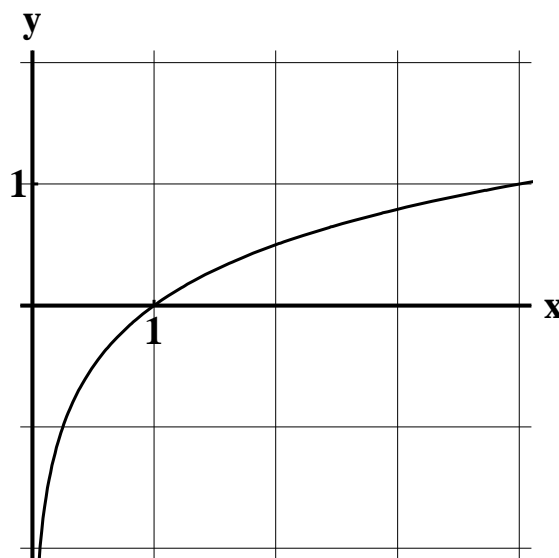
D)



E)

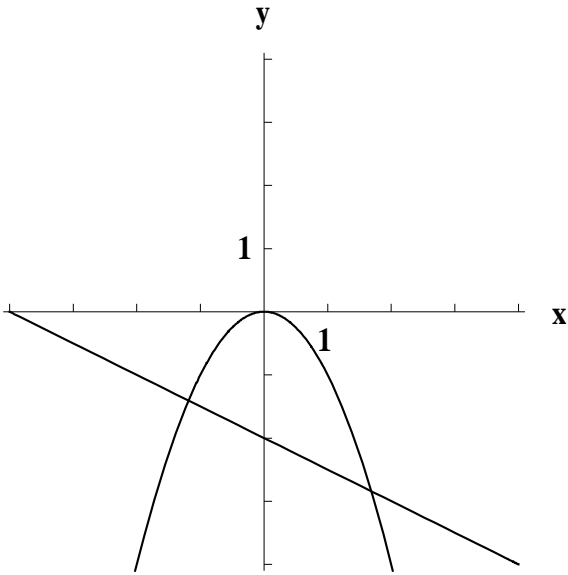


F)

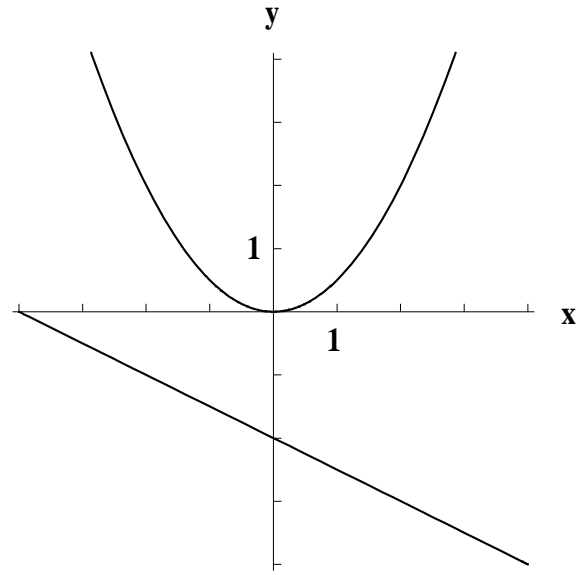


- 4) Jsou dány funkce  $f$  a  $g$ :  $f: y = 0,5x^2$ ,  $g: y = 2 - 0,5x$ . Na kterém z obrázků A – E jsou správně sestrojeny grafy obou funkcí?

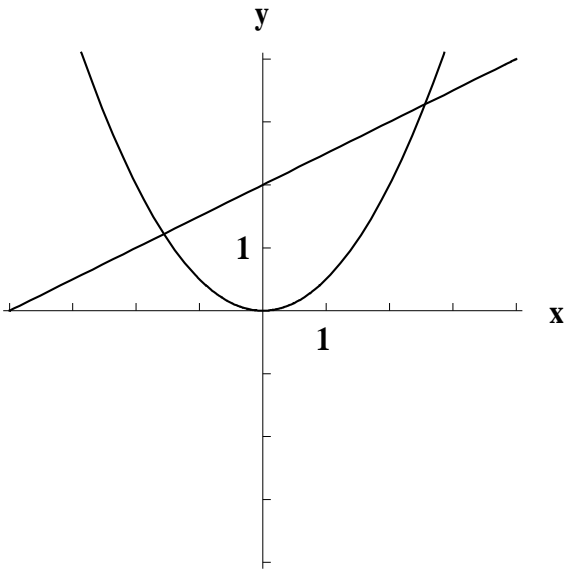
**A**



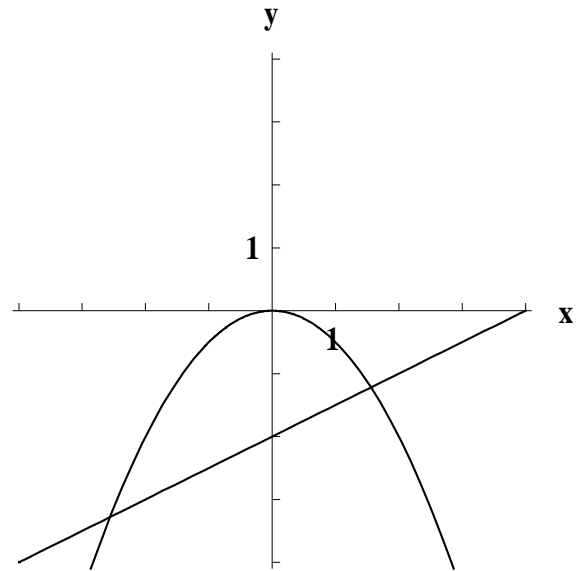
**B**



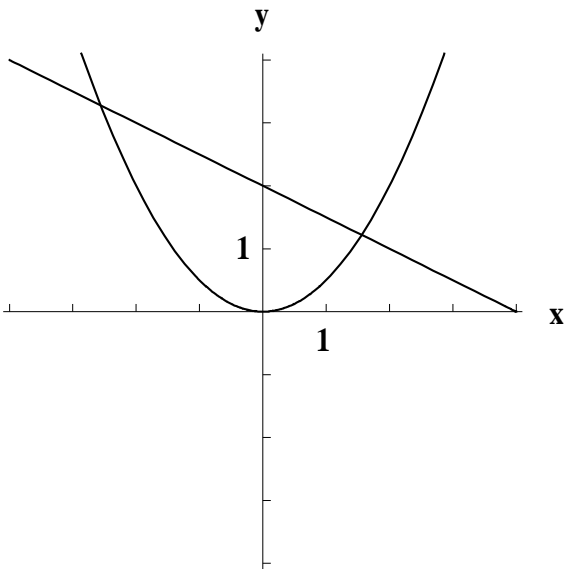
**C**



**D**



**E**



5) Přiřaďte ke každému předpisu funkce  $f_1 - f_4$  odpovídající název grafu funkce (A–F):

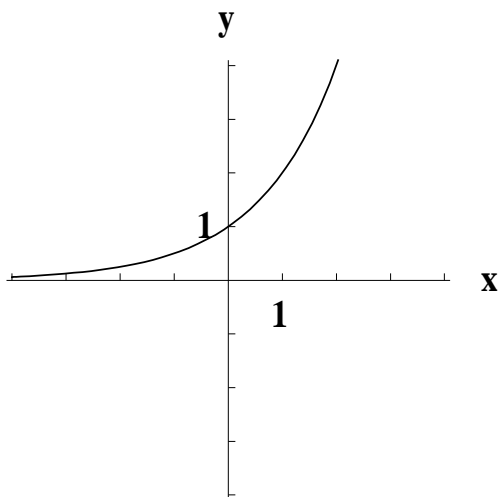
$$f_1 : y = (2x)^2 \qquad f_2 : y = 2^x \qquad f_3 : y = \frac{x}{2} \qquad f_4 : y = \frac{2}{x}$$

A) přímka, B) parabola, C) hyperbola, D) kružnice, E) graf exponenciální funkce, F) jiný název

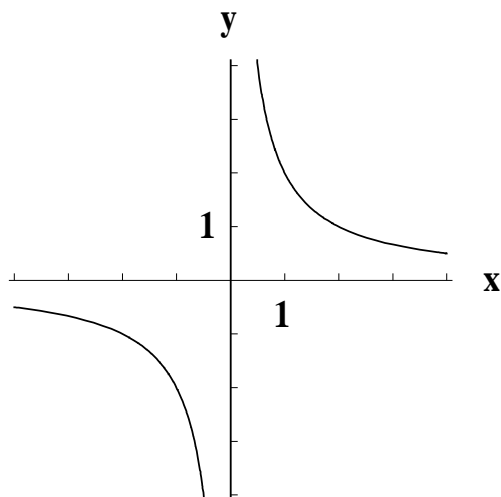
6) Ke každé funkci dané předpisem 1. – 4. najděte příslušný graf v obrázcích A – F.

1.  $f : y = 2 - x$ , 2.  $f : y = \frac{2}{x}$ , 3.  $f : y = 2^x$ , 4.  $f : y = -x^{-1}$

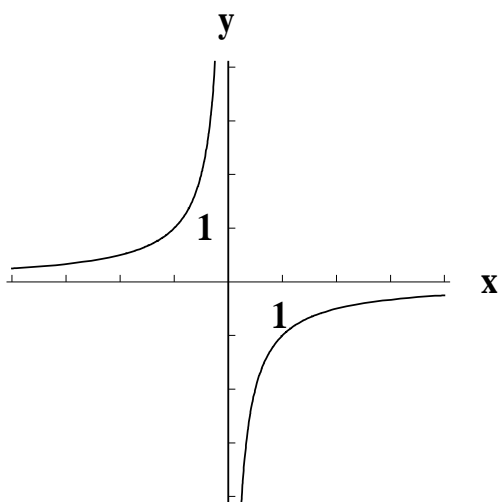
**A**



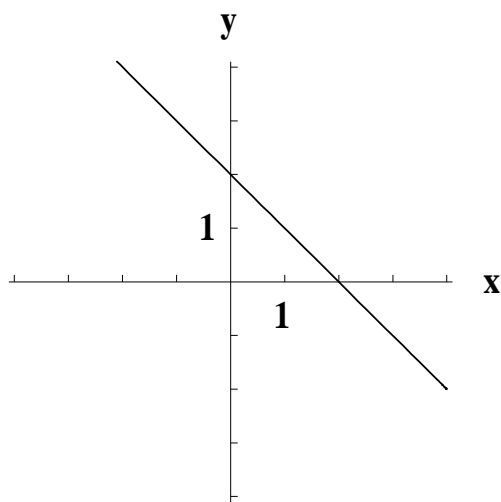
**B**



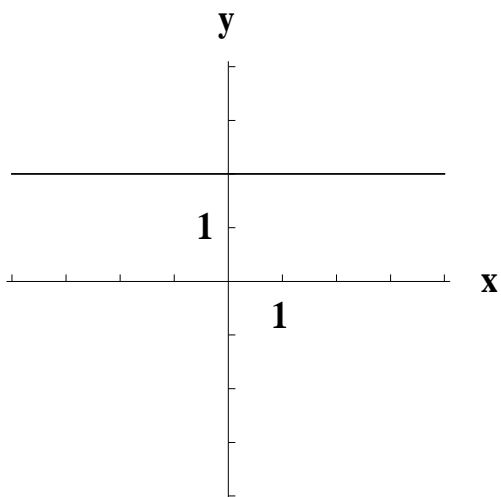
**C**



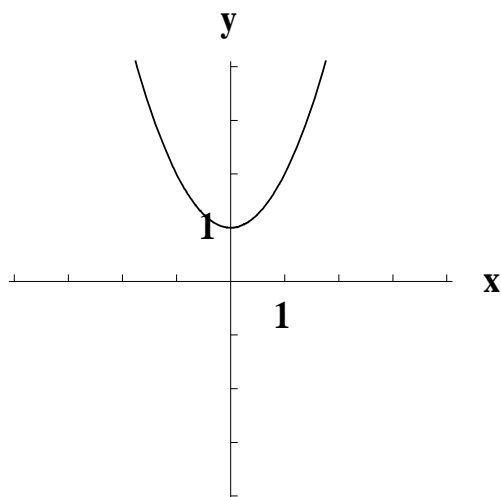
**D**



**E**



**F**



## Řešení

1)

1. D; 2. E; 3. A; 4. B

2) D

3)

a.  $\rightarrow$  D

b.  $\rightarrow$  A

c.  $\rightarrow$  B

d.  $\rightarrow$  F

4) E

5)

$f_1: \rightarrow$  B

$f_2: \rightarrow$  E

$f_3: \rightarrow$  A

$f_4: \rightarrow$  C

6)

1.  $\rightarrow$  D

2.  $\rightarrow$  B

3.  $\rightarrow$  A

4.  $\rightarrow$  C