Určete obsah plochy ohraničené křivkami:
Find area of the region bounded by the following curves:

3) $xy = 6,\ x + y - 7 = 0.$ $[S = \frac{35}{2} - 6\ln 6]$

4) $y = e^x,\ y = e^{-x},\ x = 1.$ $[S = e + \frac{1}{e} - 2]$

5) $y = 1 - (x-1)^2,\ x + y = 0.$ $[S = \frac{9}{2}]$

6) $y = \dfrac{2}{x-2},\ y + x - 5 = 0.$ $[S = \frac{3}{2} - 2\ln 2]$

7) $y = x - 2,\ y = -x^2.$ $[S = \frac{9}{2}]$

8) $y = x^2,\ y^2 = x.$ $[S = \frac{1}{3}]$

9) $y = 2x,\ y = \dfrac{x^3}{2}.$ $[S = 4]$

10) $y = \operatorname{tg} x,\ y = \operatorname{cotg} x,\ y = 0.$ $[S = \ln 2]$

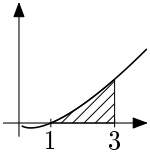
11) $y = \dfrac{2}{x},\ 2x + 3y + 8 = 0.$ $[S = \frac{8}{3} - 2\ln 3]$

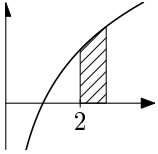
12) $y = (1-x)^2,\ y = 1 - x^2.$ $[S = \frac{1}{3}]$

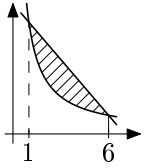
13) $y = x^2 - 4x + 3, y = x - 3.$ $[S = \frac{1}{6}]$

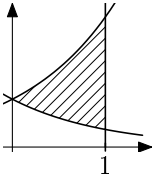
14) $y^2 = x, y = \dfrac{x}{2}.$ $[S = \frac{4}{3}]$

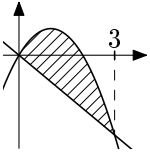
15) $y = x^2 + 1, y = 2x^2 + x + 1.$ $[S = \frac{4}{3}]$

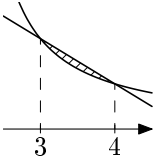
obr. 1) 

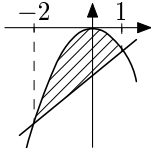
obr. 2) 

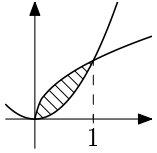
obr. 3) 

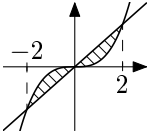
obr. 4) 

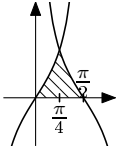
obr. 5) 

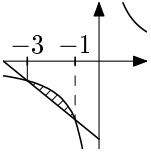
obr. 6) 

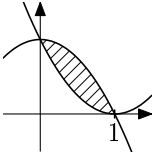
obr. 7) 

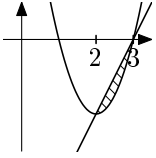
obr. 8) 

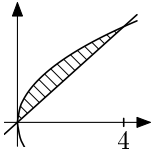
obr. 9) 

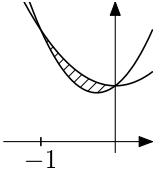
obr. 10) 

obr. 11) 

obr. 12) 

obr. 13) 

obr. 14) 

obr. 15) 

obr. 16)