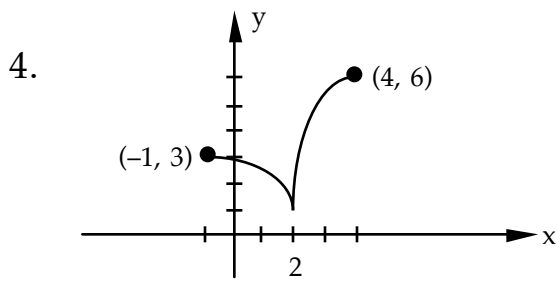


Problem Set 63

2. maximum = 21
minimum = -6



maximum at $x = 4$
minimum at $x = 2$

6. 8 joules

8. $a = 3$; $b = 0$

10. 2

12. $-\frac{1}{2}e^{-2x} + C$

14. $\frac{1}{2}$ units²

16a. $a = -5$; $b = -3$

18. $2e^{2x} \tan x (\sec^2 x + \tan x)$

20. C

22. $\frac{1}{2}$

24. 60°