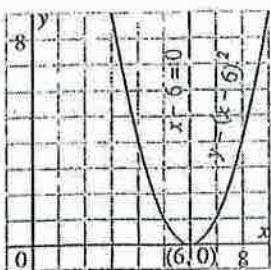


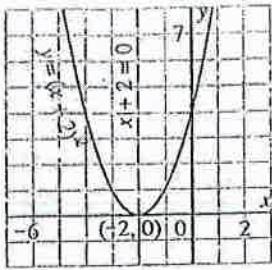
QUADRATIC FUNCTIONS

3

c)

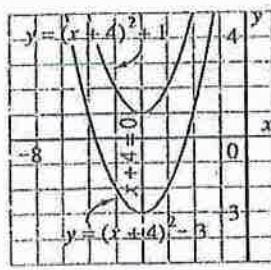


d)

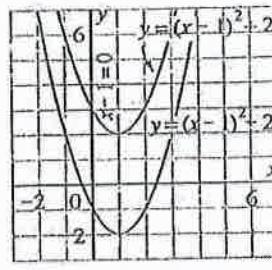


10. a) $y = (x - 4)^2$ b) $y = (x + 3)^2$
 c) $y = (x - 7)^2$

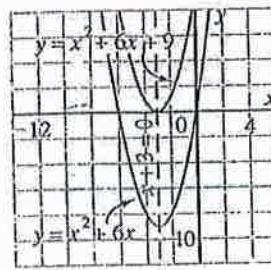
11. a)



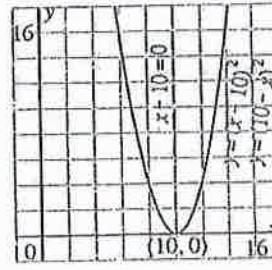
b)



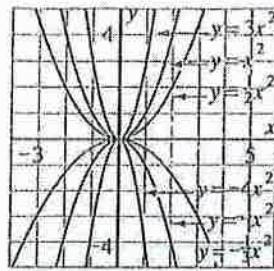
c)



d)



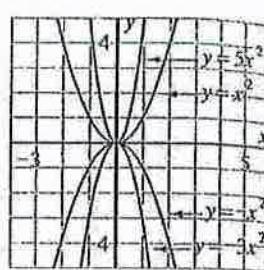
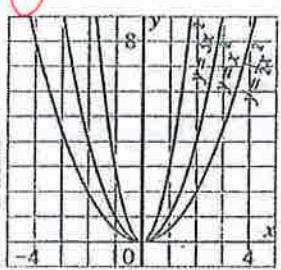
1. a)



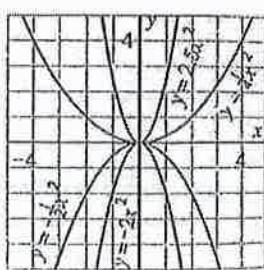
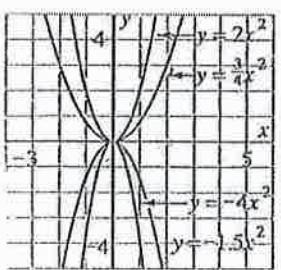
- b) The parabola is expanded more:
 as a increases when $a > 0$; and as a decreases
 when $a < 0$.

2. a) iii b) ii c) i d) iv

3. a)



b)



4. a) $y = 2x^2$ b) $y = -x^2$ c) $y = -\frac{1}{4}x^2$
 d) $y = 6x^2$

5. a) $y = -2.5x^2$ b) $y = \frac{5}{9}x^2$ c) $y = \frac{4}{27}x^2$
 d) $y = -3x^2$

6. $y = \frac{3}{4}x^2$