

## Solving Quadratics Graphically

### Workout

(a)  $x = -3$  or  $x = 4$

(b)  $x = 1$  or  $x = 3$

(c)  $x = -7$  or  $x = 0$

### Question 2

(a)  $x = -0.5$  or  $x = 2$

(b)  $x = 1.5$  or  $x = 5$

(c)  $x = -1.75$  or  $x = -1$

### Question 3

(a)  $x = 0.8$  or  $x = 6.2$

(b)  $x = -1.6$  or  $x = 0.6$

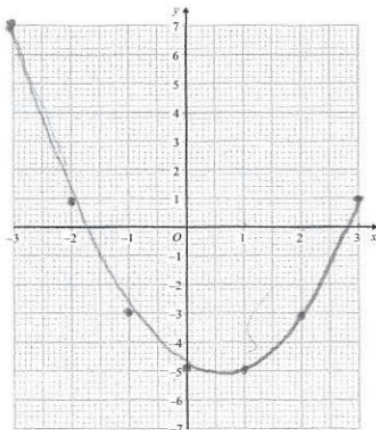
(c)  $x = -2.7$  or  $x = 4.7$

### Question 4

(a)

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

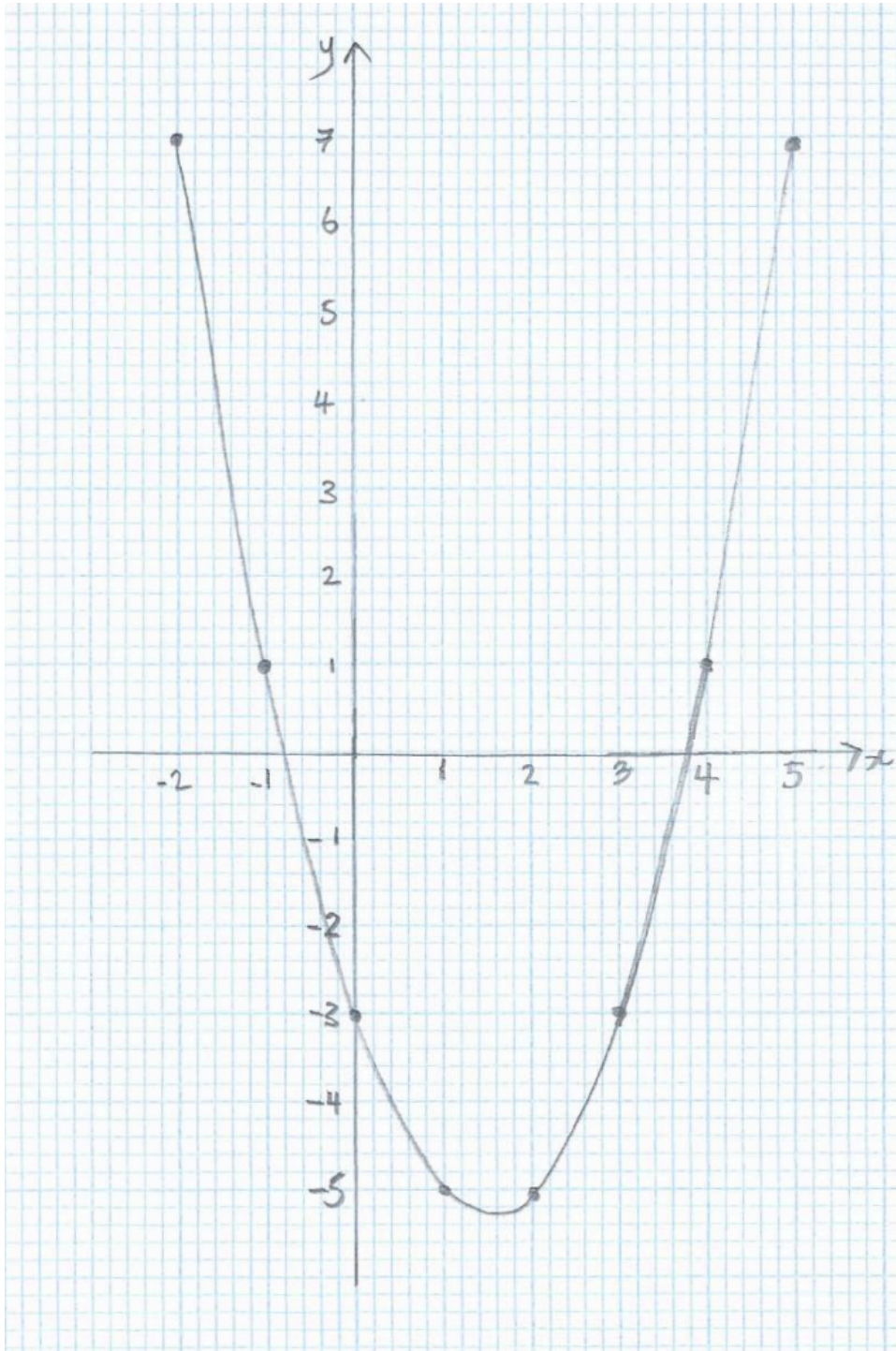
(b)



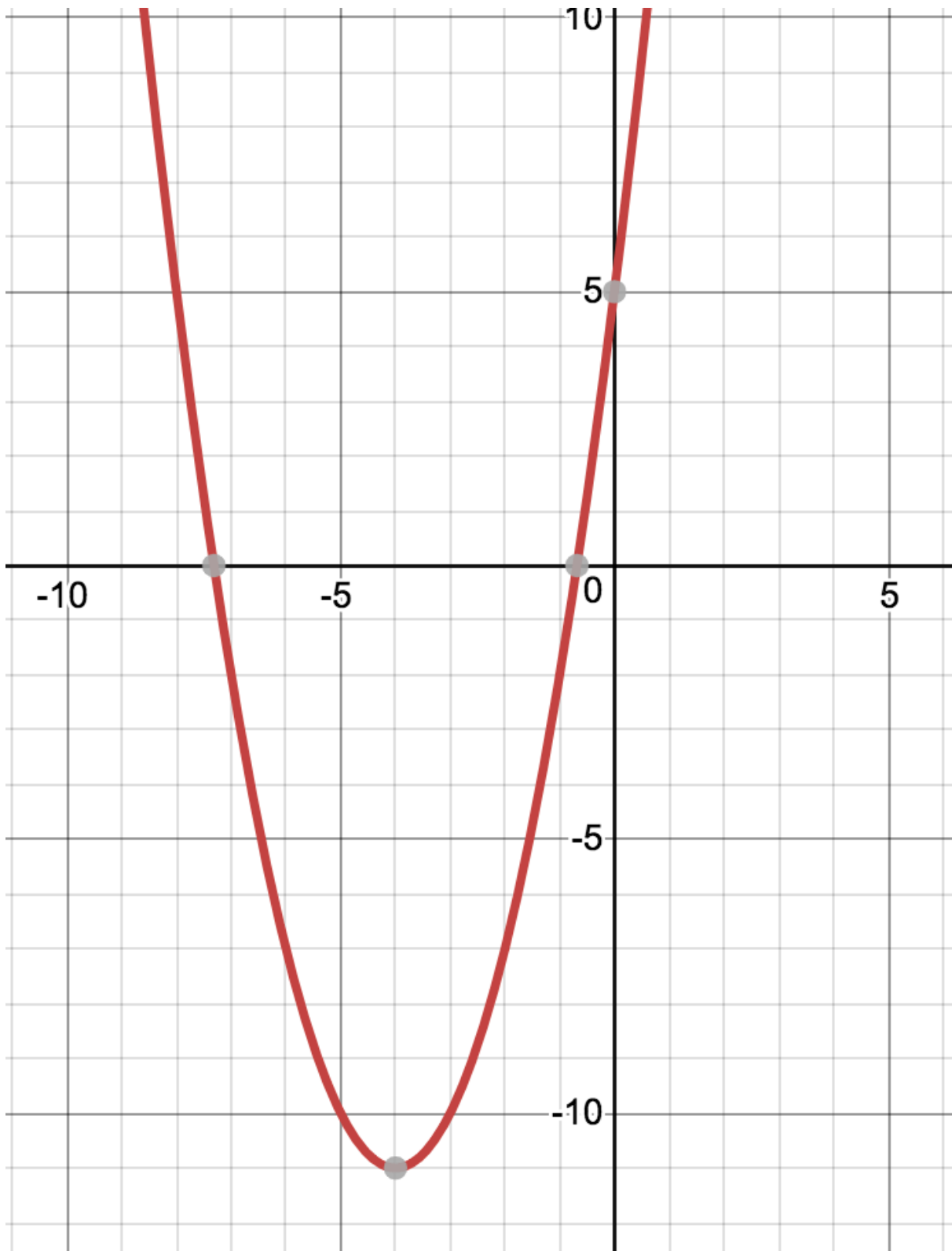
(c)  $x = -1.8, x = 2.8$

Question 5

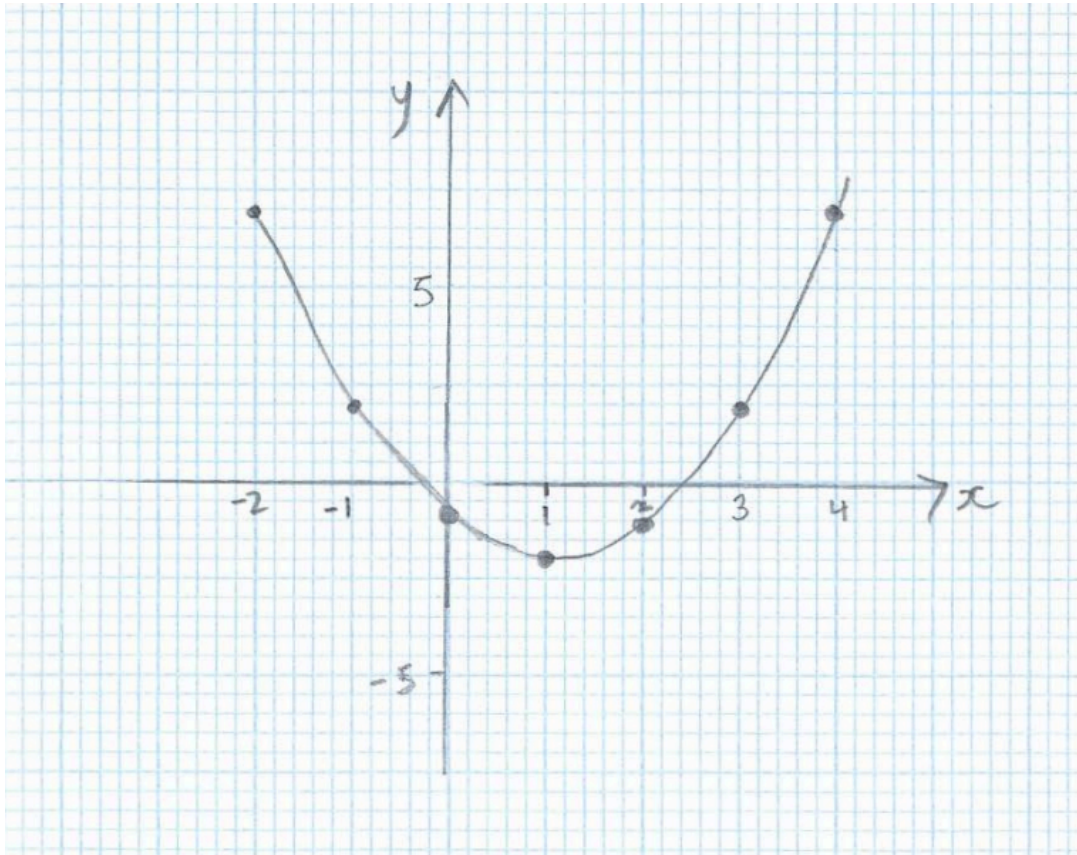
(a)  $x = -0.8$  or  $x = 3.8$



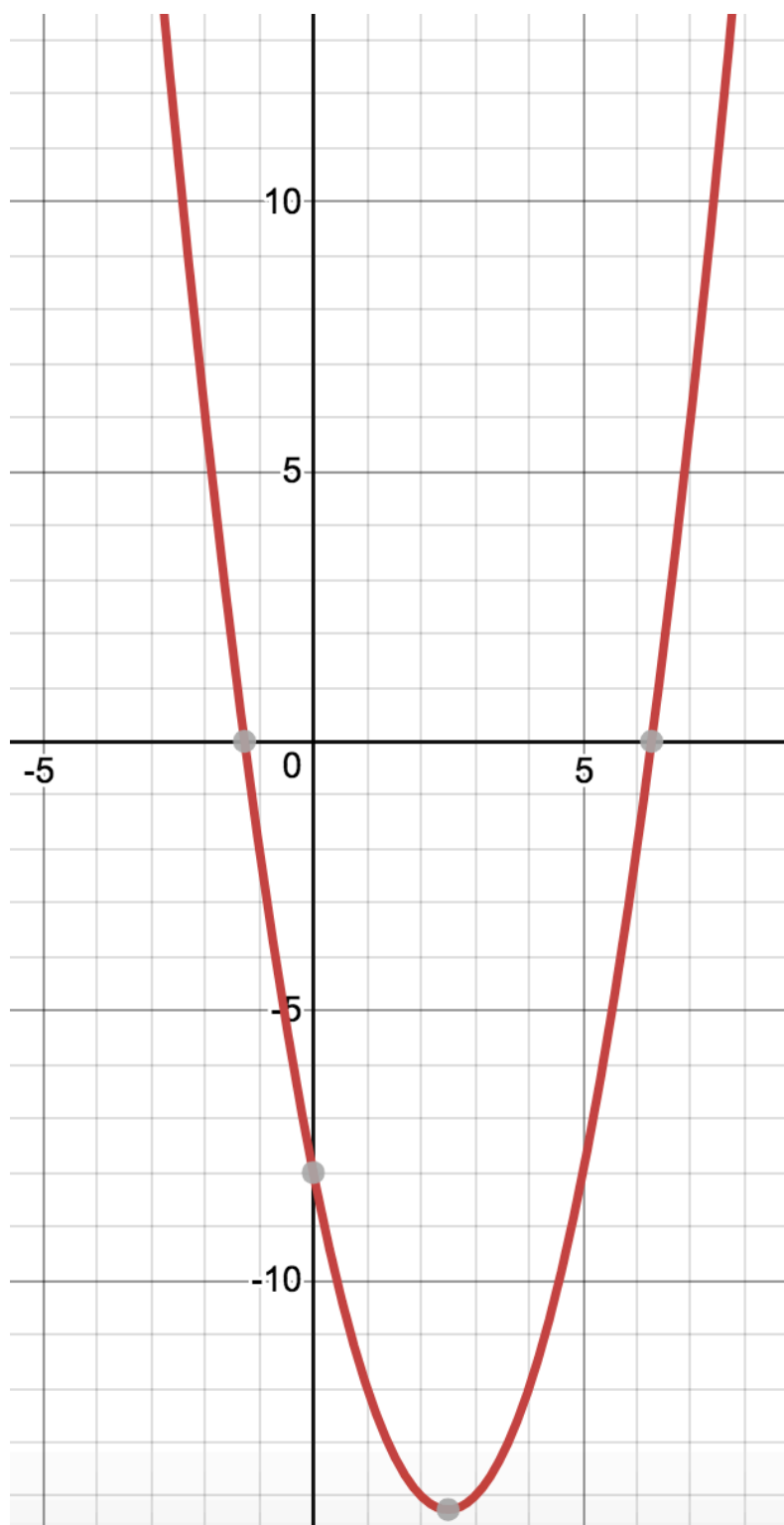
(b)  $x = -7.3$ ,  $x = -0.7$



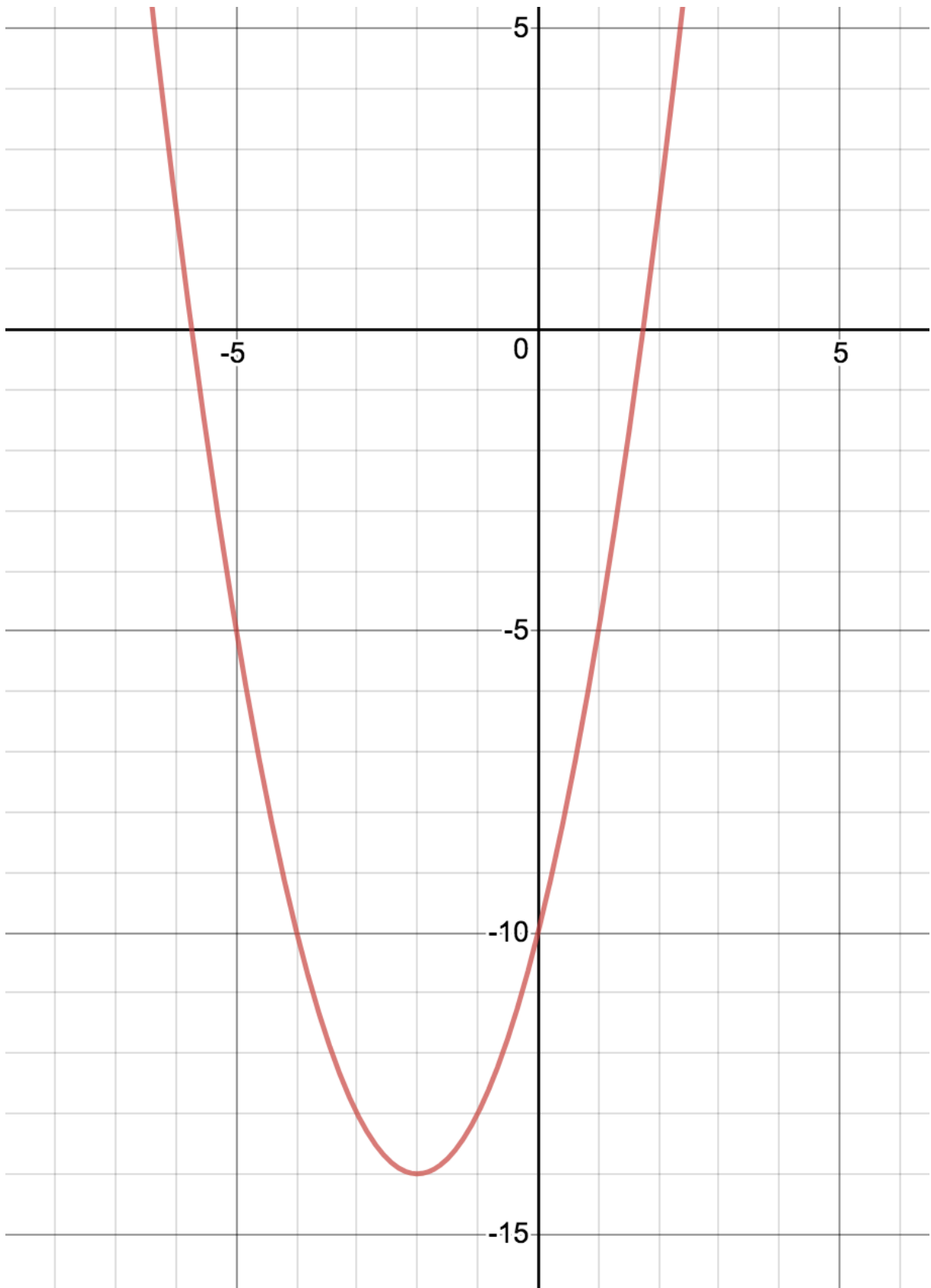
(c)  $x = -0.2$  or  $x = 2.4$



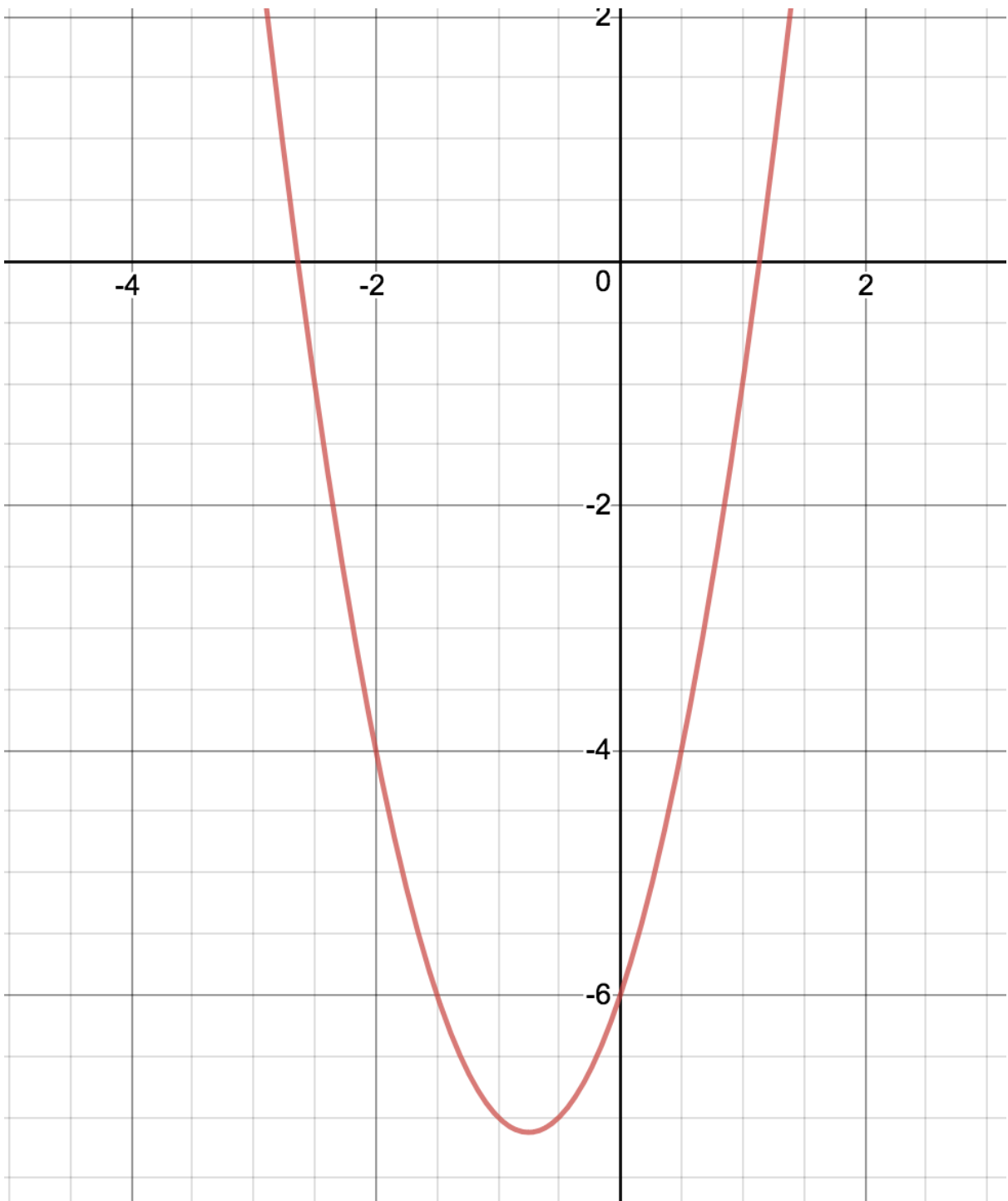
(d)  $x = -1.3$  or  $x = 6.3$



(e)  $x = -5.7$  or  $x = 1.7$



(f)  $x = -2.6$  or  $x = 1.1$



Question 6

- (a)  $x = -3$  or  $x = 1$       (b)  $x = -2$  or  $x = 3$       (c)  $x = 0$  or  $x = 2.5$

Question 7

(a)  $x = -0.7$  or  $x = 2.7$

(b)  $x = -4.9$  or  $x = 1.9$

(c)  $x = 1.6$  or  $x = 4.4$

**Apply**

Question 1

(a)  $x = -2.7$  or  $x = 0.7$

(b)  $x = -2.4$  or  $x = 0.4$

(c)  $(-1, -3)$

Question 2:  $k = -1$