

5.1-5.2 Review

Name _____

Date _____ Block _____

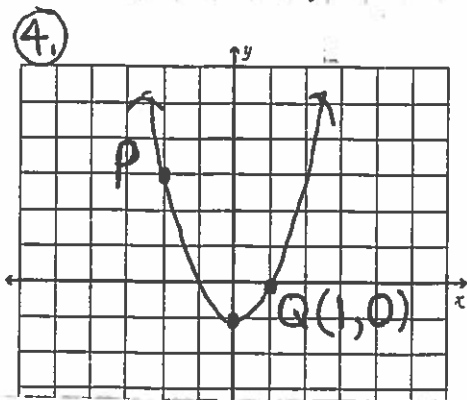
Determine whether each function is linear or quadratic. Identify the linear, quadratic and constant terms.

① $y = (3-x)(2x+1)$

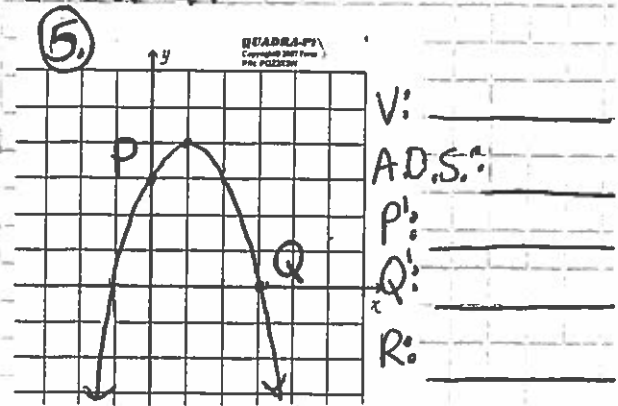
② $y = x - x^2 + 3$

③ $y = 3 - 4x$

Identify the vertex, the axis of symmetry, the range and the points corresponding to P and Q.



V: _____
 A.O.S.: _____
 P: _____
 Q: _____
 Range: _____

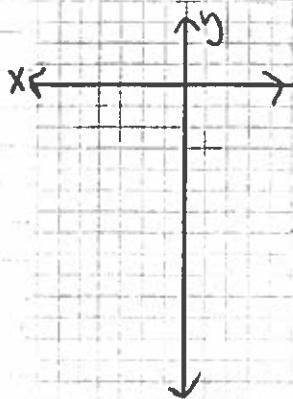


V: _____
 A.O.S.: _____
 P: _____
 Q: _____
 R: _____

⑥ p. 300 # 12 c. _____
 d. _____
 e. _____

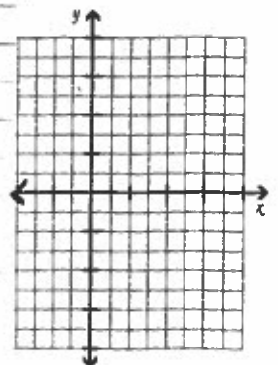
⑦ Graph
 $y = 2x^2 + 8x - 3$

V: _____
 A.O.S.: _____
 D: _____
 R: _____
 y-int: _____
 max or min _____



⑧ Graph
 $y = -x^2 + 2x + 2$

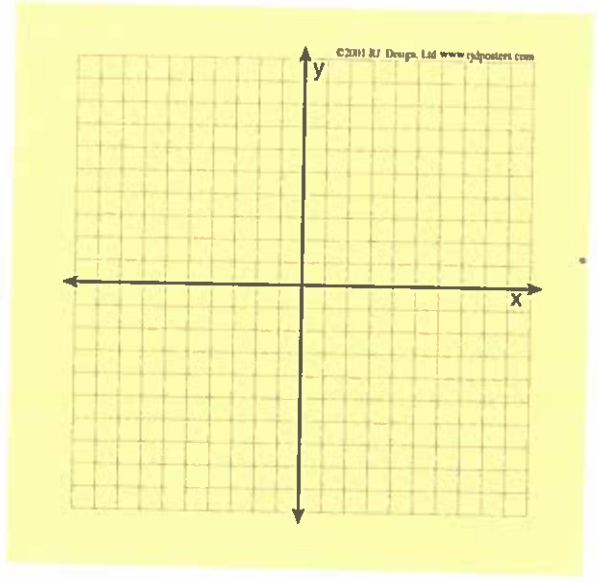
V: _____
 A.O.S.: _____
 D: _____
 R: _____
 y-int: _____
 max or min _____



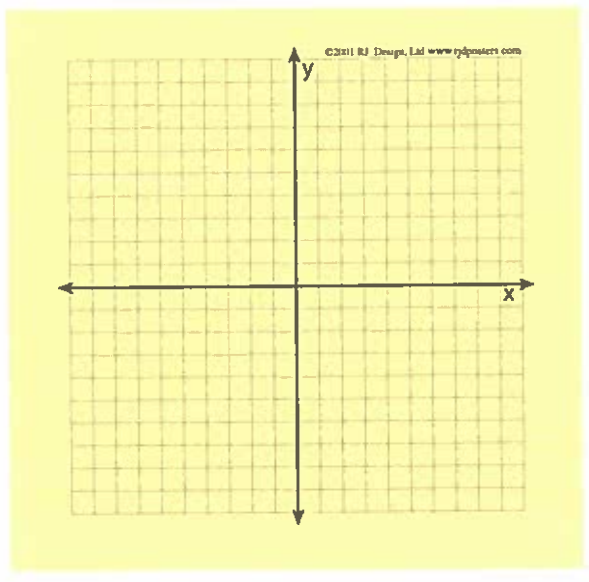
p. 248
28

use $x = -\frac{b}{2a}$

31



33



44 $y = x^2 - 6x + c$
solve for c
 $(3, -4)$
x y
 $-4 = 3^2 - 6(3) + c$
plug in
-3 for x
-4 for y
then solve for c

46 $y = x^2 + 10x + c$
 $(-5, -27)$

54