

HW 14

p84

3. intercepts

4. ~~g~~ x y-axis

7. a) $2 = \sqrt{0+4}$
 $2 = \sqrt{4} \checkmark$

b) $3 = \sqrt{5+4}$
 $3 = \sqrt{9} \checkmark$

8. a) $2 = \sqrt{5-1}$
 $2 = \sqrt{4} \checkmark$

b) $0 = \sqrt{5-5}$
 $0 = \sqrt{0} \checkmark$

9. a) $0 = 2^2 - 3(2) + 2$
 $0 = 4 - 6 + 2$
 $0 = 0 \checkmark$

b) $8 = (-2)^2 - 3(-2) + 2$
 $8 = 4 + 6 + 2$
 $8 = 12 \times$

19. x: (3, 0)
y: (0, 10)

20. x: (-2, 0) & (2, 0)
y: (0, 10)

21. x: (-2, 0)
y: (0, 2)

22. x: (4, 0)
y: (0, 2) & (0, -2)

23. x: (1, 0)
y: (0, 2)

24. x: (-2, 0) (0, 0) (2, 0)
y: (0, 0)

25. x-axis $x^2 - (-y) = 0$
 $x^2 + y = 0$ no

y-axis $(-x)^2 - y = 0$
 $x^2 - y = 0$ yes

origin $(-x)^2 - (-y) = 0$
 $x^2 + y = 0$ no

26. x-axis: $x - (-y)^2 = 0$
 $x - y^2 = 0$ yes

y-axis: $(-x) - y^2 = 0$
 $-x - y^2 = 0$ no

origin: $(-x) - (-y)^2 = 0$
 $-x - y^2 = 0$ no

27. x-axis: $-y = x^3$ no

y-axis: $y = (-x)^3$
 $y = -x^3$ no

origin: $-y = (-x)^3$
 $-y = -x^3$
 $y = x^3$ yes