7.4 Approximating Square Roots

pg. 313-314 #~~9~~ 14, 20-24, 26-28, 35, 3

9. 0 whole

10. $\sqrt[3]{343}$ Nat

11. $\frac{\pi}{6}$ irrational

12. $-\sqrt{81}$ Integer

13. -1.25 Rational

14. $\frac{52}{13}$ rational

20. a = 7 b = 6.8

21. a = 26 b = 26.2

22. a = −8 b = −7.8

23. a = −10 b = −10.2

24. a = 3 b = 2.6

26. 10 is greater, because $10 = \sqrt{100}$ & $\sqrt{100} > \sqrt{20}$

27. $\sqrt{15}$ is greater because $\sqrt{15} > 0$ & $-3.5 < 0$

28. $\sqrt{133} > 10\frac{3}{4}$ because $\sqrt{133} > 11$ & $11 > 10\frac{3}{4}$

35. The side length is 8.1 feet

7.4 Approximating Square Roots

37. The diagonal line is c 

6 & 6 will be my a & b

$a^2+b^2=c^2$

$6^2+6^2=c^2$

$36+36=c^2$

$\sqrt{72}=\sqrt{c^2}$

$8.5=c$

The diagonal line is 8.5 feet