Algebra 1
9.1 wkst #1

Name: _____

Find the indicated square roots. Round your answer to the nearest hundredth. If there is no real square roots, say so.

1. $\sqrt{225}$
2. $\sqrt{1.44}$
3. $-\sqrt{32}$
4. $\sqrt{\frac{1}{9}}$
5. $\pm\sqrt{\frac{4}{25}}$
6. $\sqrt{0}$
7. $\sqrt{8.1}$
8. $\sqrt{-100}$

Simplify each of the following.

9. $\sqrt{52}$
10. $\sqrt{72x^2}$
11. $\sqrt{176x^3}$
12. $4\sqrt{18}$
13. $\sqrt{20x^3}$
14. $\frac{2}{3}\sqrt{270}$
15. $\sqrt[3]{24}$
16. $\sqrt[3]{81x^{10}}$
17. $\sqrt[3]{-108a^4}$

Perfect Square List (must know up to 20^2)

1^2
2^2
3^2
4^2
5^2
6^2
7^2
8^2
9^2
10^2
11^2
12^2
13^2
14^2
15^2
16^2
17^2
18^2
19^2
20^2

Perfect Cube list (know up to 6^3)

1^3
2^3
3^3
4^3
5^3
6^3

18. $\dfrac{\sqrt{4}}{\sqrt{49}}$

19. $\dfrac{\sqrt{32x^4}}{\sqrt{9y^2}}$

20. $\sqrt{\dfrac{50}{162}}$

21. $\dfrac{\sqrt{4}}{\sqrt{49}}$

22. $\sqrt{\dfrac{144}{s^2}}$

23. $\dfrac{\sqrt{100}}{\sqrt{4v^4}}$

24. $\dfrac{1}{\sqrt{13}}$

25. $\sqrt{\dfrac{5}{3}}$

26. $\sqrt{\dfrac{10}{7x}}$