

RADICALS

SIMPLIFY:

1. $\sqrt{36}$

2. $\sqrt{81}$

3. $\sqrt{24}$

4. $\sqrt{98}$

5. $\sqrt{360}$

6. $\frac{6}{\sqrt{2}}$

7. $\frac{5}{\sqrt{3}}$

8. $\frac{15}{\sqrt{2}}$

9. $\frac{2\sqrt{3}}{\sqrt{12}}$

10. $\frac{\sqrt{250}}{\sqrt{48}}$

11. $(\sqrt{13})^2$

12. $(\sqrt{17})^2$

13. $(2\sqrt{3})^2$

14. $(3\sqrt{8})^2$

15. $(9\sqrt{2})^2$

16. $5\sqrt{18}$

17. $4\sqrt{27}$

18. $6\sqrt{24}$

19. $5\sqrt{8}$

20. $9\sqrt{40}$

SOLVE FOR X ; ASSUME X REPRESENTS A POSITIVE NUMBER ONLY:

21. $3^2 + 4^2 = x^2$

22. $x^2 + 4^2 = 5^2$

23. $5^2 + x^2 = 13^2$

24. $x^2 + 3^2 = 4^2$

25. $4^2 + 7^2 = x^2$

26. $x^2 + 5^2 = 10^2$

27. $1^2 + x^2 = 3^2$

28. $x^2 + 5^2 = (5\sqrt{2})^2$

29. $x^2 + (7\sqrt{3})^2 = (2x)^2$