Name_____ Date:_____P:____

Watch the video titled **Part 2: Simplifying radicals with VARIABLES**. <mark>Due 3/6/26</mark>

Use the product property to write each expression in simplified form. Assume that all variables represent positive real numbers.

27. $\sqrt{18z^2}$

28. $\sqrt{45a^2}$

29. $\sqrt{63x^4}$

30. $\sqrt{54w^4}$

31. $\sqrt{98m^3}$

32. $\sqrt{75a^5}$

33. $\sqrt{80x^2y^3}$

34. $\sqrt{108p^5q^2}$

35. $\sqrt[3]{40b^3}$

36. $\sqrt[3]{16x^3}$

37. $\sqrt[3]{48p^9}$

38. $\sqrt[3]{-80a^6}$

39. $\sqrt[3]{54m^7}$

40. $\sqrt[3]{250x^{13}}$

41. $\sqrt[3]{-24a^5b^4}$

42. $\sqrt[3]{128r^6s^2}$

43. $\sqrt[3]{56x^6y^5z^4}$

44. $-\sqrt[3]{250a^4b^{15}c^9}$

45. $\sqrt[4]{32x^8}$

46. $\sqrt[4]{162y^{12}}$

47. $\sqrt[4]{243a^{15}}$