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a. $5 \times 5^{n+1} \times 5^{n-3} = 5^{1+(n+1)+(n-3)} = 5^{2n-1}.$

b. $(5^{n-1} \times 5)^3 = (5^{n-1+1})^3 = (5^n)^3 = 5^{3n}.$

c. $\frac{5^{2n} \times 5}{5^{3-3n}} = \frac{5^{2n+1}}{5^{3-3n}} = 5^{2n+1-(3-3n)} = 5^{5n-2}.$