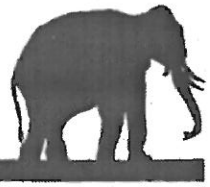
Do Elephants Know How to Gamble?



Simplify each expression below. Assume that all variables represent nonnegative numbers. Find your answer in the corresponding set of answer boxes. Print the letter of the exercise in the box above the answer.

(T) $\sqrt{9x^2}$

(E) $-\sqrt{49x^2}$

(A) $\sqrt{4x^2y^2}$

(H) $\sqrt{12x^2}$

(O) $-\sqrt{45x^2}$

(T) $\sqrt{25y^4}$

(E) $-\sqrt{28x^4}$

(Y) $\sqrt{16xy^2}$

(V) $-\sqrt{20xy^2}$

(D) $\sqrt{7x^2y}$

(H) $\sqrt{9x^2y^4}$

(N) $\sqrt{24x^4y^2}$

$5y^2$ | $2x\sqrt{3}$ | $-7x$ | $4y\sqrt{x}$ | $2xy\sqrt{6y}$ | $x\sqrt{7y}$ | $-3x\sqrt{5}$ | $2x^2y\sqrt{6}$ | $3x$ | $3x^2y^3$ | $3xy^2$ | $2xy$ | $-2y\sqrt{5x}$ | $-2x^2\sqrt{7}$

(E) $\sqrt{a^3}$

(T) $-\sqrt{40a^3}$

(A) $\sqrt{54a^3b^2}$

(E) $\sqrt{75a^2b^3}$

(I) $\sqrt{144b^6}$

(E) $-\sqrt{1000a^6}$

(S) $\sqrt{18a^6b^2}$

(H) $\sqrt{15a^8b^3}$

(A) $\sqrt{a^5b^8}$

(V) $2\sqrt{50ab^5}$

(D) $8\sqrt{300a^4b^6}$

(G) $5\sqrt{98a^{20}b^3}$

$-2a\sqrt{10a}$ | $a^4b\sqrt{15b}$ | $-10a^3\sqrt{10}$ | $40ab^3\sqrt{3}$ | $10b^2\sqrt{2ab}$ | $a\sqrt{a}$ | $35a^{10}b\sqrt{2b}$ | $3ab\sqrt{6a}$ | $3a^3b\sqrt{2}$ | $a^2b^2\sqrt{5}$ | $12b^3$ | $80a^2b^3\sqrt{3}$ | $5ab\sqrt{3b}$ | $a^2b^4\sqrt{a}$

OBJECTIVE 3–g: To simplify square roots with variables in the radicand (assuming that all variables represent nonnegative numbers).

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