Product rule

Quotient rule

Power rule

Negative exponents

Which of the following is equivalent to $9^{\sqrt{2}} * 9^{\sqrt{2}}$?

a. $9^{\sqrt{2}}$
b. 81^{2}
c. 9^{4}
d. 9^{2}
e. $81^{\sqrt{4}}$
f. 81^{4}
g. $9^{\sqrt{4}}$
h. $81^{\sqrt{2}}$

Which of the following is equivalent to $4^{(\sqrt{3}+2)} * 4^{\sqrt{3}}$?

a. $4^{\sqrt{6}}$
b. 16^{6}
c. 4^{6}
d. $4^{(\sqrt{3}+2)}$
e. 16^{3}
f. $4^{(2+\sqrt{3})}$
g. $16^{(\sqrt{3}+1)}$
h. $16^{\sqrt{6}}$

Which of the following is equivalent to $4^{\sqrt{2}} * 8^{\sqrt{2}}$?

a. 4^{2}
b. 32^{4}
c. 4^{4}
d. $4^{\sqrt{4}}$
e. $32^{\sqrt{2}}$
f. $32^{\sqrt{4}}$
g. $4^{\sqrt{2}}$
h. 32^{2}

What is the value of $(6^{\sqrt{3}})^{\sqrt{3}}$?

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What is the value of $\frac{5^{(\sqrt{2}+3)}}{5^{(\sqrt{2}-3)}}$?

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Which of the following is equivalent to $8^{\sqrt{2}} * 8^{\sqrt{2}}$?

a. $64^{\sqrt{4}}$
b. $8^{\sqrt{4}}$
c. 8^{4}
d. $8^{\sqrt{2}}$
e. 64^{2}
f. 64^{4}
g. $64^{\sqrt{2}}$
h. 8^{2}

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Which of the following is equivalent to $8^{(\sqrt{2}+2)} * 8^{\sqrt{2}}$?

a. $8^{(\sqrt{2}+2)}$
b. $8^{\sqrt{4}}$
c. 8^{4}
d. $64^{\sqrt{4}}$
e. $8^{(2+\sqrt{2})}$
f. 64^{2}
g. $64^{(\sqrt{2}+1)}$
h. 64^{4}

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What is the value of $\frac{7^{(\sqrt{2}+3)}}{7^{(\sqrt{2}-3)}}$?