

Structure in expressions



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$$1.4^2(20k)-7$$

Which of the following is equivalent to the above expression?

A. $4^2(20+k)-7$

B. $4^2\left(\frac{20}{k}\right)-7$

C. $20k \cdot 4^2 - 7$

D. $\left(\frac{4^2 \cdot 20}{k}\right) - 7$

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$$2.\frac{\frac{a}{b}}{c} + \frac{d}{\frac{e}{f}}$$

Which of the following is equivalent to the above expression?

A. $\frac{a}{bc} + \frac{df}{e}$

B. $\frac{a}{bc} + \frac{de}{f}$

C. $\frac{bc}{a} + \frac{df}{e}$

D. $\frac{bc}{a} + \frac{de}{f}$

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$$3. \frac{\left(\frac{3}{a+b}\right)}{3(a+b)}$$

Which of the following is equivalent to the above expression for $a \neq -b$?

A. 1

B. 9

C. $\frac{1}{a^2+b^2}$

D. $\frac{1}{a^2+2ab+b^2}$

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$$4. \frac{\frac{ab}{xy}}{\frac{ij}{mn}}$$

Which of the following is equivalent to the above expression?

A. $\frac{(ax)(im)}{(by)(jn)}$

B. $\frac{a(bm)n}{x(yi)j}$

C. $\frac{(ab)(ij)}{(xy)(mn)}$

D. $\frac{a(bx)y}{i(jm)n}$

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$$5. \frac{m+n}{4} - \frac{4}{m+n} = \frac{(x-4)(x+4)}{4(m+n)}$$

Which of the following is equivalent to x if the above equation is true for all $m \neq n$?

- A. $\sqrt{m-n}$
- B. $\sqrt{m+n}$
- C. $m-n$
- D. $m+n$

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6. $(am)^n \cdot amn$

Which of the following is equivalent to the above expression?

A. $2amn$

B. a^2mn

C. $a^{m^2n^2}$

D. a^{m^n+mn}

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$$7. \frac{x^2 - 2x - 8}{x + 3} \cdot \frac{x + 2}{x + 3}$$

Which of the following is equivalent to the above expression for $x \neq -3$?

A. $\frac{2(x-4)(x+2)}{3(x+3)}$

B. $\frac{(x-4)(x+2)^2}{x+3}$

C. $\frac{(x-4)(x+2)^2}{x^2+6x+9}$

D. $\frac{2(x-4)(x+2)}{x^2+6x+9}$

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$$8.(w - \frac{3}{2})(w + \frac{7}{2})$$

Which of the following is equivalent to the above expression?

A. $\frac{(w-3)(w+7)}{2}$

B. $\frac{(2w+7)(2w-3)}{2}$

C. $\frac{(w-3)(w+7)}{4}$

D. $\frac{(2w+7)(2w-3)}{4}$

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$$9. \frac{a+b}{c-d} - \frac{a+b}{d-c}$$

Which of the following is equivalent to the above expression for $c \neq d$?

A. 0

B. $\frac{2b}{c-d}$

C. $\frac{2(a+b)}{c-d}$

D. $\frac{2a+2b}{2c-2d}$

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