

Radical and rational equations



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$$1. \frac{2+\sqrt{2}}{2-\sqrt{2}}$$

Which of the following is equivalent to the above expression?

- A. -1
- B. $1+\sqrt{2}$
- C. $3+2\sqrt{2}$
- D. $3+4\sqrt{2}$

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$$2n + 2 = \sqrt{a - n}$$

For what value of the constant a does the above equation have $n=1$ as the only solution?

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$$3.8\sqrt{p} - 2\sqrt{3} = \sqrt{3} + 3\sqrt{p}$$

What value of p is the solution to the above equation?

- A. $\frac{3\sqrt{3}}{5}$
- B. $\frac{9}{5}$
- C. $\frac{9}{25}$
- D. $\frac{27}{25}$

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$$4.k = \sqrt{10 + 3k} - 4$$

What are all the possible values of k that satisfy the equation above?

- A. -2 only
- B. 2 only
- C. -2 and -3
- D. 2 and -2

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$$5.\sqrt{3p + 13} = p + 3$$

What is the sum of the solutions to the above equation?

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$$6. \frac{3k}{k+4} - \frac{4k}{k-2} = -5$$

What are the values of k that are solutions to the above equation?

- A. -2 only
- B. 5 only
- C. -2 and 4
- D. -2 and 5

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$$7.\sqrt{4x + 20} = x + 2$$

What is the sum of the solutions to the above equation?

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$$8. \frac{11d+2}{d-8} = \frac{-3}{2}$$

What is the solution to the equation above?

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$$9. \frac{a}{a+2} + \frac{a}{a+1} = \frac{3a+2}{(a+2)(a+1)}$$

What is the sum of all the possible values for a that satisfy the equation above?

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