

ALGEBRA

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Practice Problems with Solution

Question 1: $X + 1/X = 5$, find $X^2 + 1/X^2$?

A: 25

B: 27

C: 23

D: 21

Question 2: $X^2 + 1/X^2 = 4$ find $X^4 + 1/X^4 = ?$

A: 14

B: 16

C: 18

D: 17

Question 3: $x\sqrt{x} + 1/x\sqrt{x} = 3$, $X^6 + 1/X^6 = ?$

A: 49

B: 47

C: 45

D: 51

Question 4: $X^4 + 1/X^4 = 12$, $X^8 + 1/X^8 = ?$

A: 144

B: 146

C: 140

D: 142

Question 5: $3X + 1/2X = 4$, $9X^2 + 1/4X^2 = ?$

A: 16

B: 15

C: 14

D: 13

Question 6: $X^4 + 1/X^4 = 47$, $X + 1/X = ?$

A: 7

B: $\sqrt{5}$

C: 3

D: 8

Question 7: $x + 1/X+1 = 4$, $(X+1)^2 + 1/(X+1)^2 = ?$

A: 25

B: 21

C: 27

D: 23

Question 8: $(X+1) + 1/X-3$, find $(X-3)^2 + 1/(X-3)^2 = ?$

A: 64

B: 61

C: 62

D: 63

Question 9: $X - 1/X = 4$, $X^4 + 1/X^4 = ?$

A: 324

B: 321

C: 18

D: 322

Question 10: $3X + 1/2X = 6$, $8X^3 + 1/27X^3 = ?$

A: 64

B: 60

C: 56

D: 51

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Answers and Solutions

1:- C, 23

2:- A, 14

3:- B, 47

4:- D, 142

5:- D, 13

6:- C, 3

7:- D, 23

8:- C, 62

9:- D, 322

10:- C, 56

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