

Section 12-5: Addition and Subtraction of Radicals

1. 010311a, P.I. A.N.3

The sum of $\sqrt{75}$ and $\sqrt{3}$ is

- [A] 18 [B] $\sqrt{78}$ [C] $6\sqrt{3}$ [D] 15

2. 080524a, P.I. A.N.3

What is the sum of $5\sqrt{7}$ and $3\sqrt{28}$?

- [A] $11\sqrt{7}$ [B] $8\sqrt{35}$
[C] $60\sqrt{7}$ [D] $9\sqrt{7}$

3. 060316a, P.I. A.N.3

The sum of $\sqrt{18}$ and $\sqrt{72}$ is

- [A] $6\sqrt{3}$ [B] $3\sqrt{10}$
[C] $9\sqrt{2}$ [D] $\sqrt{90}$

4. 080614a, P.I. A.N.3

What is the sum of $\sqrt{50}$ and $\sqrt{32}$?

- [A] $\sqrt{82}$ [B] $9\sqrt{2}$
[C] $\sqrt{2}$ [D] $20\sqrt{20}$

5. 080712a, P.I. A.N.3

What is the sum of $\sqrt{50}$ and $\sqrt{8}$?

- [A] $29\sqrt{2}$ [B] $7\sqrt{2}$
[C] $9\sqrt{2}$ [D] $\sqrt{58}$

6. 069920a, P.I. A.N.3

The expression $\sqrt{27} + \sqrt{12}$ is equivalent to

- [A] $13\sqrt{3}$ [B] $5\sqrt{3}$
[C] $5\sqrt{6}$ [D] $\sqrt{39}$

7. 060512a, P.I. A.N.3

The expression $\sqrt{50} + \sqrt{32}$ is equivalent to

- [A] 18 [B] $\sqrt{82}$ [C] 6 [D] $9\sqrt{2}$

8. 060724a, P.I. A.N.3

The expression $\sqrt{28} + \sqrt{63}$ is equivalent to

- [A] $5\sqrt{7}$ [B] $6\sqrt{7}$
[C] $\sqrt{91}$ [D] $13\sqrt{7}$

9. 010826a, P.I. A.N.3

The expression $\sqrt{28} - \sqrt{7}$ is equivalent to

- [A] $3\sqrt{7}$ [B] 4 [C] $\sqrt{7}$ [D] 2

10. 080016a, P.I. A.N.3

The expression $2\sqrt{50} - \sqrt{2}$ is equivalent to

- [A] 10 [B] $9\sqrt{2}$
[C] $49\sqrt{2}$ [D] $2\sqrt{48}$

- [1] C
- [2] A
- [3] C
- [4] B
- [5] B
- [6] B
- [7] D
- [8] A
- [9] C
- [10] B