

A2.N.5: Rationalizing Denominators 4: Rationalize a denominator containing a radical expression

1 The expression $\frac{1}{2 - \sqrt{3}}$ is equivalent to

2 The expression $\frac{5}{2 - \sqrt{3}}$ is equivalent to

3 The expression $\frac{2}{\sqrt{3} - 1}$ is equivalent to

4 The expression $\frac{2}{3 - \sqrt{3}}$ is equivalent to

5 The expression $\frac{6}{3 - \sqrt{3}}$ is equivalent to

6 The expression $\frac{1}{2 - \sqrt{11}}$ is equivalent to

7 The expression $\frac{7}{3 - \sqrt{2}}$ is equivalent to

8 The expression $\frac{2}{\sqrt{3}+1}$ is equivalent to

9 The expression $\frac{7}{2+3\sqrt{2}}$ is equivalent to

10 What is the reciprocal of $3 - \sqrt{5}$?

11 The expression $\frac{3+\sqrt{2}}{3-\sqrt{2}}$ is equivalent to

12 The expression $\frac{\sqrt{3}+1}{\sqrt{3}-1}$ is equivalent to

13 Expressed in simplest form, $\frac{2\sqrt{3}}{1-\sqrt{3}}$ is equivalent to

14 The expression $\frac{3+5\sqrt{3}}{4-2\sqrt{3}}$ is equivalent to

15 The expression $\frac{3+\sqrt{5}}{3-\sqrt{5}}$ is equivalent to

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Answer Section

1 ANS:

$$2 + \sqrt{3}$$

PTS: 2

REF: 018432siii

2 ANS:

$$10 + 5\sqrt{3}$$

PTS: 2

REF: 068131siii

3 ANS:

$$\sqrt{3} + 1$$

PTS: 2

REF: 088435siii

4 ANS:

$$\frac{3 + \sqrt{3}}{3}$$

PTS: 2

REF: 068831siii

5 ANS:

$$3 + \sqrt{3}$$

PTS: 2

REF: 018918siii

6 ANS:

$$-\frac{2 + \sqrt{11}}{7}$$

PTS: 2

REF: 089319siii

7 ANS:

$$3 + \sqrt{2}$$

PTS: 2

REF: 019030siii

8 ANS:

$$\sqrt{3} - 1$$

PTS: 2

REF: 010328siii

9 ANS:

$$\frac{-2 + 3\sqrt{2}}{2}$$

PTS: 2

REF: 060333siii

10 ANS:

$$\frac{3 + \sqrt{5}}{4}$$

PTS: 2

REF: 060218siii

11 ANS:

$$\frac{11 + 6\sqrt{2}}{7}$$

PTS: 2

REF: 068928siii

12 ANS:

$$2 + \sqrt{3}$$

PTS: 2

REF: 069433siii

13 ANS:

$$-3 - \sqrt{3}$$

PTS: 2

REF: 089434siii

14 ANS:

$$\frac{21 + 13\sqrt{3}}{2}$$

PTS: 2

REF: 080333siii

15 ANS:

$$\frac{7 + 3\sqrt{5}}{2}$$

PTS: 2

REF: 018527siii