

Radical Equations

Single Radical

$$1. \sqrt{4x^2 + 2} = 2x + 1$$

$$2. \sqrt{2x^2 - 9} = x$$

$$3. \sqrt{7x^2 - 14} = 10 - x$$

$$4. \sqrt{19x^2 - 4} = x$$

$$5. \sqrt{x^2 - 4x + 8} + x = 2 - x$$

$$6. 5 - 2x = \sqrt{2x^2 + x - 1} - x$$

$$7. 6y - \sqrt{2y^2 - 1} = 7y - 2$$

$$8. z + 2 = \sqrt{2z^2 + 3z + 7} - 3$$

$$9. \sqrt{w^2 - w + 3} - 1 = 2w$$

$$10. x = 3 + \sqrt{x^2 - 9}$$

Answers

Radical Equations

Single Radical

$$1. x = \frac{1}{4}$$

$$2. x = 3$$

$$3. x = -\frac{19}{3}, x = 3$$

$$4. x = \frac{\sqrt{2}}{3}$$

$$5. x = -\frac{2}{3}$$

$$6. x = -13, x = 2$$

$$7. y = -5, y = 1$$

$$8. z = -2, z = 9$$

$$9. w = \frac{1}{3}$$

$$10. x = 3$$