

$$37\sqrt{2} - 17.$$

$$\sqrt{ad} + \sqrt{bc}$$

$$(x + y). \quad 11. 1.$$

$$\frac{1}{2}[(x - y)^{\frac{1}{2}} - 1].$$

$$\frac{c^{\frac{1}{2}} + 1}{c^{\frac{1}{2}} - 1}$$

$$4. \frac{7\sqrt{15}}{45}.$$

$$\frac{(a - \sqrt{x})^2}{a^2 - x}.$$

$$\frac{-2(x + y)}{-y}$$

$$5. \sqrt{ab}.$$

$$2b^2 + 2a^4)^{\frac{1}{2}}.$$

$$6. 5. a + 1.$$

$$28, 36.$$

$$12. y = \sqrt{\frac{ac' - ac}{ab' - ab}}, x = \sqrt{\frac{b'c - bc}{ab' - ab}}. \quad 13. 10, 24.$$

$$14. \frac{c}{(m^2 + n^2)^{\frac{1}{2}}}. \quad 15. \frac{1}{4}\sqrt{h}.$$

$$195. 1. x = 10, -\frac{2}{5}. \quad 2. y = \pm 8. \quad 4. y = a \pm b.$$

$$5. x = -a \text{ or } -b. \quad 7. x = a(1 \pm \sqrt{2}).$$

$$8. y = \frac{1}{8}(-1 \pm \sqrt{129}). \quad 9. y = \frac{1}{2}.$$

$$10. x = \pm a\sqrt{\frac{3}{5}}. \quad 1. \pm 21, \pm 27. \quad 2. 4 \text{ and } 10.$$

$$3. \pm 17. \quad 4. 36, 24. \quad 5. 10, 15, 30.$$

$$6. 6, 10, 14, 18, \text{ or } -18, -14, -10, -6.$$

$$7. 35. \quad 8. 21 \text{ turkeys, } 25 \text{ chickens.} \quad 9. 12. \quad 10. 10.$$

$$11. 250. \quad 12. 3. \quad 13. \text{Length, } 45; \text{ breadth, } 35.$$

$$14. \frac{1}{2}(\sqrt{4m^2 + a^2} + a) \text{ and } \frac{1}{2}(\sqrt{4m^2 + a^2} - a).$$

$$15. 72 \text{ or } 108.$$

$$196. 1. 81. \quad 2. 121. \quad 3. 225. \quad 4. 289. \quad 5. 256. \quad 6. \sqrt{3 \pm 3\sqrt{6}}.$$

$$7. \sqrt{\frac{1}{6}(7 \pm \sqrt{349})}. \quad 8. \left(\frac{13}{5}\right)^4, 1. \quad 9. \sqrt{\left(a^{\frac{1}{2}} + \frac{1}{a^{\frac{1}{2}}}\right)^{\frac{4n}{n}} - a^2}.$$

$$202. 1. x = \frac{a}{4}. \quad 2. x = -a. \quad 3. x = 13. \quad 4. x = 50.$$

$$5. x = 1. \quad 6. x = \frac{-1 \pm \sqrt{16a^2 + 1}}{8}. \quad 7. x = 16.$$

$$8. x = 5 \text{ or } \frac{9}{5}. \quad 9. x = a^2 - b^2 \pm b\sqrt{b^2 - a^2}.$$

$$10. x = 4. \quad 11. x = a \text{ or } \frac{1}{a}.$$

$$203. 1. x = \frac{37}{7} \text{ or } 5, y = \frac{10}{7} \text{ or } 2.$$

$$2. x = -4 \text{ or } +13, y = 0 \text{ or } -17.$$

$$3. x = -\frac{1}{3} \pm \frac{1}{3}\sqrt{-863}; y = \frac{1}{6}(1 \mp \sqrt{-863}).$$

$$4. x = 11 \text{ or } -7\frac{4}{3}, y = 15 \text{ or } -17\frac{4}{3}.$$

$$5. x = -21 \text{ or } 4; y = 28 \text{ or } 3.$$

$$204. 1. x = 1.37... \text{ or } -0.156...; y = -4.46... \text{ or } -6.096...$$

$$2. y = \frac{7}{2} \text{ or } -4; x = \frac{79}{12} \text{ or } -\frac{14}{3}.$$

$$3. x = 2 \text{ or } 5; y = 6 \text{ or } 3.$$