

24. 30 m. 25. I, 6; II, 3; III, 2. 26. 3000. 27. 100.  
 28. 4. 29. \$8000. 30. \$142.50. 31. I, \$6; II, \$4.  
 32. 3 m. an h. 33. \$3600. 34. \$24800.  
 35. 3 h. 21 $\frac{1}{4}$  m.

$$36. \text{I, } \frac{m}{1+2a+a^2} - a; \text{II, } \frac{m}{1+2a+a^2} + a$$

$$\text{III, } \frac{m}{a(1+2a+a^2)}; \text{IV, } \frac{ma}{1+2a+a^2}.$$

$$38. \text{I, } \frac{\$a-10n}{5}; \text{II, } \frac{\$a-5n}{5}; \text{III, } \frac{\$a}{5}; \text{IV, } \frac{\$a+5n}{5};$$

$$\text{V, } \frac{\$a+10n}{5}. \quad 39. 16 \text{ h.}; 160 \text{ m.}$$

$$131. 40. 30 \text{ m.}; 2 \text{ points.}$$

$$41. 20 \text{ m.}; 3 \text{ points.} \quad 42. 3\frac{1}{2} \text{ m.}$$

$$43. \frac{T'T}{T-T'}.$$

$$138. 1. y = 2\frac{3}{4}, x = 12\frac{3}{4}. \quad 2. y = 7, x = 16.$$

$$3. x = a-b, y = \frac{7b}{6} - a. \quad 4. y = \frac{m-n}{6}, x = \frac{m+n}{4}.$$

$$5. y = \frac{p-q}{2b}, x = \frac{q+p}{2a}. \quad 6. x = 84, y = 84.$$

$$7. x = 32, y = 50. \quad 8. x = a+b, y = \frac{3}{2}(a-b).$$

$$9. x = 9, y = 3. \quad 10. x = 7, y = 5.$$

$$11. y = 6, x = 4. \quad 13. y = 9, x = 8.$$

$$14. y = 8, x = 6. \quad 15. y = 6, x = 15.$$

$$16. y = 7, x = 14. \quad 17. y = 12, x = 6.$$

$$18. y = \frac{2b}{c-d}, x = \frac{2a}{c+d}. \quad 19. y = 2, x = 6.$$

$$20. y = a^2 - 2ab + b^2, x = a^2 + 2ab + b^2.$$

$$140. 2. x_1 = 27, x_2 = 22, x_3 = 8, x_4 = 7.$$

$$3. x = 2, y = 3, z = -2.$$

$$4. x = 6, y = -1, z = 3, w = 2.$$

$$5. x = \frac{a-2b+c+d}{3}, y = \frac{a+b-2c+d}{3},$$

$$z = \frac{a+b+c-2d}{3}, u = \frac{-2a+b+c+d}{3}.$$

$$6. x = \frac{2}{p+m+n}, y = \frac{2}{p+n-m}, z = \frac{2}{p-n-m}.$$