

Mathematics.

1. (a)
2. (d)
3. (d)
4. (a) $a \times b$
- ~~5. (b)~~
- ~~5. (b)~~
6. (b) 1
7. (a)
8. (b)
9. (a)
10. (c)
11. (a) $\frac{1}{6}$
12. (b) $\frac{1}{6}$
13. (d) -15
14. (d)

$$\frac{x}{y} - \frac{4}{y}$$

$$\frac{1}{x} - \frac{-2y}{p} = 1$$

$$p$$

$$\frac{3p}{p}$$

$$\frac{3p}{p} \times \frac{p}{2}$$

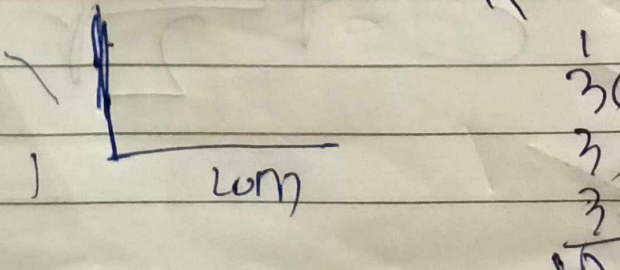
$$19x - 17y = 55$$

$$19x - 19y = 523$$

$$36x - 36y = 108$$
~~$$x - y = 3$$~~

$$x - y = 3$$

$$\frac{x}{-3} = \frac{2}{-6} + \frac{5}{1}$$



$$a^2 + 2b^2$$

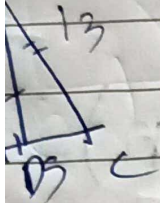
15. (c)

$$\sqrt{a^2 + b^2}$$

16. (a)

17. (c)

18. (d)



19. (d)

20. (d)

$$\frac{2+s}{n} = \frac{7}{n}$$

21. (a)

22. (a)

0

23. (a)

$$\begin{array}{r} 050 \\ 050 \\ \hline 210 \end{array}$$

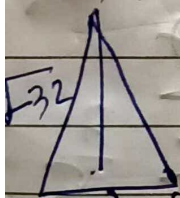
24. (c)

$$\begin{array}{r} 210 \\ \hline \end{array}$$

25. (a)

(s, 1)

26. (d)



27. (c)

(s, 5)

(-3, -1)

28. (c)

$$\sqrt{(1-s)^2 + (s-1)^2}$$

$$\sqrt{32}$$

$$\sqrt{(-3-1)^2 + (s+1)^2} \quad \sqrt{16+36\sqrt{5}2}$$

29. (a)

30. (a)

31. (a)

32. (d)

33. (c)

34. (c)

35. (a)

36. (c)

37. (c)

38. (a)

39. (b)

40. (c)

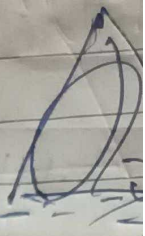
41. (c)

42. (b)

43. (d)

44. (d) 90°

$$\frac{-5 \pm \frac{1}{2}}{2} = \frac{-5 \pm 1}{2}$$



$$u = a \cos \theta$$

$$y = b \sin \theta$$

$$\frac{4}{5} = \frac{1}{13} \cdot 2 \cos \theta$$

$$\frac{20}{5} = \frac{2}{13} \cos \theta$$

$$20 = \frac{2}{13} \cos \theta$$

$$20 \cdot \frac{13}{2} = \cos \theta$$

$$\begin{array}{r} 13 \\ 13 \\ 14 \\ \hline 27 \\ 5 \quad 27 \\ \hline 32 \end{array}$$

$$\frac{1}{6}$$

$(-3)^2 = 9$
 $3^2 = 9$
 $2 + 2 = 4$
 $3 + 3 = 6$
 $4 + 4 = 8$
 $5 + 5 = 10$
 $6 + 6 = 12$
 $7 + 7 = 14$
 $8 + 8 = 16$
 $9 + 9 = 18$
 $10 + 10 = 20$

$(a-b)$

$ab + ab = 2ab$
 2

$x \sqrt{x} \times x$
 $x \sqrt{x} \times x = x^2 \sqrt{x}$

$x \sqrt{x} \times x \sqrt{x}$
 $x \sqrt{x} \times x \sqrt{x} = x^2 \sqrt{x^2} = x^2 \times x = x^3$

$\frac{11}{11}$

$\tan \theta = m$

$\frac{p}{b}$

11

$22 \times \sqrt{7} \times \sqrt{7}$
 $22 \times 7 = 154$

13.6

45. (c) $\frac{1}{13}$

46. (c) $\frac{1}{4}$

47. (b)

48. (c)

49. (c)

50. (b)

51. (c)

52. (d)

53. (b)

54. (a) - 2

55. (d)

56. (b)

57. (c)

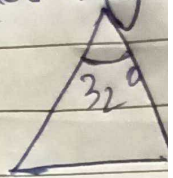
58. (a)

59. (a)

60. (c)

$3 \sec^2 - 1 = 3 \tan^2$

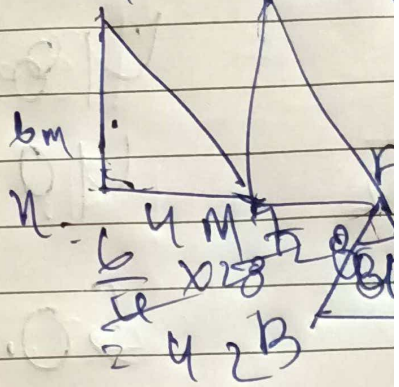
61. (a)



62. (d) 50°

$\frac{6}{4} = \frac{x}{20}$

63. (c)

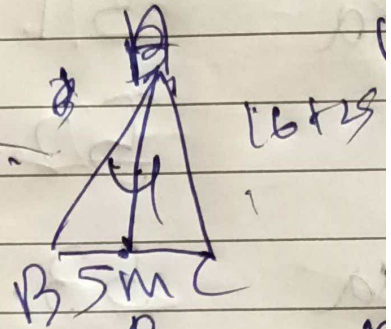


64. (a)

65. (c)

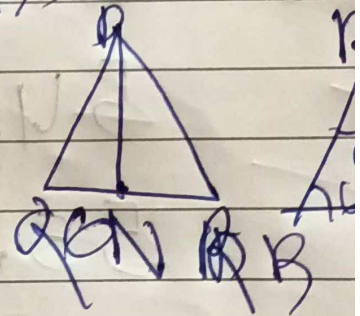
66. (a)

67. (a) 42.



68. (b)

69. (a)



70. (b) 1.

10