

1. -64

2. 32

3. -64

4. 15

5. 16

6. 81

7. $9x^2 - 12x$

8. $10x - 2$

9. $x = -\frac{4}{5}$

10. $x = -1$

11. $x = \frac{4}{3}$ or $1\frac{1}{3}$

12. $x = 0$

13. The sides are 16, 11, and 8 ($x = 7$)

14. 43

15. 2

16. $\frac{5}{7}$

17. $y = -5$ [$y = 5\left(\frac{1}{3} - \frac{2}{3}x\right)$]

18. $y = \frac{14}{5}$ or $2\frac{4}{5}$ [$y = \frac{8+3x}{2x+1}$]

19. $y = -\frac{1}{5}$ [$y = \frac{9-2(x+1)}{4-3x}$ or $y = \frac{-2x+7}{4-3x}$]

20. $s = \frac{2h\sqrt{3}}{3}$

21. $h = \frac{3v}{\pi r^2}$

22. $h = \frac{2A}{b_1+b_2}$

23. $r = \frac{S}{2\pi h}$