

Changing the Subject of a Formula - 3

Change the subject of each formula to x :

1. $y = x^2 + 1$

2. $y = x^2 - 4$

3. $y = x^2 + a$

4. $y = x^2 - k$

5. $y = x^2 + c$

6. $y = x^2 - p$

7. $y = 3x^2$

8. $y = 5x^2$

9. $y = ax^2$

10. $y = \frac{x^2}{6}$

11. $y = \frac{x^2}{c}$

12. $y = \frac{x^2}{m}$

13. $y = x^2 + e$

14. $y = px^2$

15. $y = x^2 - c$

16. $y = \frac{x^2}{f}$

17. $y = x^2 + t$

18. $y = kx^2$

Change the subject of each formula to the letter in brackets:

19. $d = 5t^2$ (t)

20. $A = \pi r^2$ (r)

21. $V = x^2 h$ (x)

22. $C = Id^2$ (d)

23. $S = 4\pi r^2$ (r)

24. $L = 4T^2$ (T)

25. $y = 4x^2 + 1$ (x)

26. $y = 3x^2 - 5$ (x)

27. $y = 2x^2 + 3$ (x)

28. $y = 5x^2 - 1$ (x)

29. $y = ax^2 + b$ (x)

30. $y = kx^2 - c$ (x)

31. $y = px^2 + q$ (x)

32. $d = kt^2 + a$ (t)

33. $h = af^2 - m$ (f)

34. $y = \frac{x^2 + 1}{3}$ (x)

35. $y = \frac{x^2 - 1}{2}$ (x)

36. $p = \frac{t^2 + a}{m}$ (t)

37. $A = \frac{\pi r^2}{2}$ (r)

38. $d = \frac{gt^2}{2}$ (t)

39. $V = \frac{\pi r^2 h}{3}$ (r)

Answers

1. $x = \sqrt{y-1}$

2. $x = \sqrt{y+4}$

3. $x = \sqrt{y-a}$

4. $x = \sqrt{y+k}$

5. $x = \sqrt{y-c}$

6. $x = \sqrt{y+p}$

7. $x = \sqrt{\frac{y}{3}}$

8. $x = \sqrt{\frac{y}{5}}$

9. $x = \sqrt{\frac{y}{a}}$

10. $x = \sqrt{6y}$

11. $x = \sqrt{cy}$

12. $x = \sqrt{my}$

13. $x = \sqrt{y-e}$

14. $x = \sqrt{\frac{y}{p}}$

15. $x = \sqrt{y+c}$

16. $x = \sqrt{fy}$

17. $x = \sqrt{y-t}$

18. $x = \sqrt{\frac{y}{k}}$

19. $t = \sqrt{\frac{d}{5}}$

20. $r = \sqrt{\frac{A}{\pi}}$

21. $x = \sqrt{\frac{V}{h}}$

22. $d = \sqrt{\frac{C}{I}}$

23. $r = \sqrt{\frac{S}{4\pi}}$

24. $T = \sqrt{\frac{L}{4}}$

25. $x = \sqrt{\frac{y-1}{4}}$

26. $x = \sqrt{\frac{y+5}{3}}$

27. $x = \sqrt{\frac{y-3}{2}}$

28. $x = \sqrt{\frac{y+1}{5}}$

29. $x = \sqrt{\frac{y-b}{a}}$

30. $x = \sqrt{\frac{y+c}{k}}$

31. $x = \sqrt{\frac{y-q}{p}}$

32. $t = \sqrt{\frac{d-a}{k}}$

33. $f = \sqrt{\frac{h+m}{a}}$

34. $x = \sqrt{3y-1}$

35. $x = \sqrt{2y+1}$

36. $t = \sqrt{mp-a}$

37. $r = \sqrt{\frac{2A}{\pi}}$

38. $t = \sqrt{\frac{2d}{g}}$

39. $r = \sqrt{\frac{3V}{\pi h}}$