ALEKS

1. Solve the equation: $2x + 5 = 13$.

2. Simplify the expression: $3x^2 + 2x - 7$.

3. Find the derivative of $f(x) = 3x^2 + 4x - 2$.

4. Calculate the area of a triangle with base 5 cm and height 8 cm.

5. Determine the value of y when $x = 3$ in the equation $2x + 3y = 12$.

6. Solve the inequality: $2x - 7 < 15$.

7. Factor the quadratic expression: $x^2 + 5x + 6$.

8. Find the slope of the line passing through the points (2, 4) and (6, 10).

9. Evaluate the integral of $f(x) = 2x + 3$ from $x = 1$ to $x = 5$.

10. Simplify the radical expression: $\sqrt{27x^3}$.

11. Find the midpoint of the line segment with endpoints (3, 4) and (7, 10).

12. Solve the system of equations: $2x + 3y = 10$ and $4x - 2y = 6$.

13. Calculate the volume of a cylinder with radius 4 cm and height 10 cm.

14. Determine the domain of the function $f(x) = 1/(x - 3)$.

15. Solve the logarithmic equation: $\log_2(x) = 5$.

16. Find the inverse of the function $f(x) = 2x + 3$.

17. Simplify the complex fraction: $(3x + 2)/(5x - 1)$.

18. Determine the range of the function $f(x) = x^2 - 4$.

19. Solve the trigonometric equation: $\sin(x) = 0.5$.

20. Find the sum of the arithmetic series: $2 + 5 + 8 + \dots + 20$.

21. Calculate the standard deviation of the data set: 2, 4, 6, 8, 10.

22. Determine the discriminant of the quadratic equation: $3x^2 + 2x + 1 = 0$.