

Year 12 Algebra Worksheet



Solve the following linear equations:

1. $5t + 3 = 2(1 - t)$

2. $(3x + 4) / x = 2$

Solve the following quadratic equations:

3. $5x^2 - 11x + 2 = 0$

4. $4t^2 = 20t - 1.$

5. $y^2 = 6y$

6. $(v - 2)^2 = 16$

7. If $(x+6)$ is a factor of $x^2+mx-48$, then $m = ?$

8. If one solution of the equation $x^2 + ax + 6 = 0$ quadratic equation is 2, what is the other solution?

9. The cost of a toy car is \$20 less than 2 times the cost of a toy train. If the cost of toy car is \$100, what is the cost of toy train?

10. If one solution of the equation $x^2 + 5x + b = 0$ is 2, what is the other solution?

11. If -6 is 3 more than x , what is the value of $x/9$?

12. Simplify $(x^2 - 5x + 6) / (x - 2)$