

TMT V5 Top 20 Algebra Prep

1. Given $f(x) = -4x^2 - 2x - 3$, find $f(-2)$ [231]

2. Simplify $(5a - 9n)^2$ [211]

3. Solve $21x^2 - 15x - 6 = 0$ [85]

4. Find the distance between (0,-2) & (5,7) [217]

5. Simplify $\frac{4}{9} \cdot \frac{7}{8}$ [42]

6. Simplify $\frac{-2 \pm \sqrt{8}}{12}$ [214]

7. Simplify $\frac{27x^5yz^2}{9x^2z^3}$ [74]

8. Simplify $\frac{\frac{3}{4}}{\frac{5}{9}}$ [50]

9. Multiply $(x^2 + 2x - 7)(x - 5)$ [213]

10. Simplify $(2a^4b^3)^3 \cdot 3(a^2b^3)$ [206]

11. Solve $(x - 6)^2 = 14$ [208]

12. Simplify $2\frac{3}{4} - \frac{2}{5}$ [272]

13. Clear fractions, solve $\frac{4}{9}a + 2 = \frac{1}{4}$ [207]

14. Find 3 points on $f(x) = x^2 + 3x - 7$ [271]

X	Y

15. Simplify $\frac{x^2 - 7x - 44}{x^2 - 121}$ [209]

16. Find the midpoint given (0,5) & (10,-3) [218]

17. Write an equation using (12,7) & (-9,-3) [210]

18. Simplify (PEMDAS) $-2(x - 1)^2 + 6$ [212]

19. Solve $V = \pi r^2 h$ for r [205]

20. Solve. Show 3+ steps of work [89]
 $-(6x + 4) + 2(x - 8) = 11x + 4$