

**TMT Top 20 ACT Prep V4**

1. Simplify  $\frac{3x^2-14x-24}{x^2-36}$  [209]

2. Solve  $6x^2 + 2x - 4 = 0$  [85]

3. Simplify  $\frac{2}{5} \cdot \frac{1}{6}$  [42]

4. Simplify  $(4a + 2n)^2$  [211]

5. Simplify  $\frac{18x^{11}y^2}{12x^2y}$  [74]

6. Multiply  $(x^2 + 2x - 3)(x - 7)$  [213]

7. Find the distance between (-2,0) &amp; (3,8) [217]

8. Simplify (PEMDAS)  $-8(x - 2)^2 + 1$  [212]

9. Simplify  $(5a^2b^3)^3 \cdot 2(a^3b^4)$  [206]

10. Write an equation using (-1,-9) &amp; (-5,-2) [210]

11. Solve  $(x - 3)^2 = 17$  [208]

12. Find 3 points on  $f(x) = -x^2 + 5x - 1$  [271]

X	Y

13. Clear fractions, solve  $\frac{3}{8}a + 1 = \frac{1}{3}$  [207]

14. Given  $f(x) = -3x^2 - 5x - 1$ , find  $f(-2)$  [231]

15. Simplify  $\frac{\frac{3}{8}}{\frac{2}{3}}$  [50]

16. Simplify  $\frac{-6 \pm \sqrt{8}}{10}$  [214]

17. Find the midpoint given (5,1) &amp; (-3,7) [218]

18. Solve. Show 3+ steps of work [89]  
 $-(x + 7) - 3(x + 6) = 3x + 6$

19. Solve  $F = ma$  for  $m$  [205]

20. Simplify  $2\frac{3}{8} + \frac{1}{3}$  [272]