

**TMT First 20 ACT Prep V2**

1. Multiply  $(x - 2)^2$  [61]
2. Find the slope if given two points, (-1, 3) and (5,4)[210]
3. Solve  $|x - 2| = 14$  [84]
4. Evaluate  $f(x) = 2x^2 - 1$  if  $x = -2$  [110]
5. Simplify  $\frac{3}{4} \cdot \frac{8}{5}$  [42]
6. Simplify  $\frac{-2 \pm 2\sqrt{2}}{4}$  [214]
7. Multiply  $(3x - 5)(x + 2)$  [60]
8. Solve. Show 3+ steps of work [89]  
 $-2 - (x - 1) = 3x + 5$
9. Simplify  $\frac{\frac{2}{5}}{\frac{3}{7}}$  [50]
10. Factor out a GCF  $2x^2 - 14x + 2ax$  [58]
11. Simplify  $(2a^2b^5)^3 \cdot b^2$  [206]
12. Find the following:  $6y = 6x - 3$  [135]  
Slope:  
Y-Intercept:
13. Solve  $(2x + 3)(x - 5) = 0$  [85]
14. Solve  $-3n - 1 < -4$  [82]
15. Solve  $x^2 - 2x - 1 = 4$  [88]
16. Simplify  $\frac{(x-6)(x+2)}{x^2-36}$  [209]
17. Simplify  $\frac{2}{9} + \frac{5}{2}$  [39]
18. Factor  $x^2 - 3x - 4$  [53]
19. Simplify(PEMDAS)  $3(4 - 3(x + 2))$  [212]
20. Simplify  $\frac{8x^2}{40x^7}$  [74]