TMT V2 Top 20 Algebra Prep

1. Write an equation using (-2,6) & (-1,5)
   [210]

2. Solve $9x^2 + 3x - 6 = 0$ *[85]*

3. Simplify $(3a^3b^4)^2 \cdot 9(a^2b^6)$ *[206]*

4. Simplify $1\frac{1}{4} + \frac{1}{3}$ *[272]*

5. Find 3 points on $f(x) = -x^2 + 2x + 4$
   [271]

X	Y

6. Simplify $\frac{2}{5} \cdot \frac{4}{6}$ *[42]*

7. Solve $E = mc^2$ for m *[205]*

8. Simplify $\frac{5x^3y}{15x^2}$ *[74]*

9. Simplify (PEMDAS) $2(x + 3)^2 + 8$ *[212]*

10. Simplify $\frac{-8 \pm \sqrt{8}}{2}$ *[214]*

11. Solve $(x - 4)^2 = 10$ *[208]*

12. Simplify $\frac{\frac{1}{4}}{\frac{2}{7}}$ *[50]*

13. Clear fractions, solve $\frac{3}{5}a + 2 = \frac{1}{3}$ *[207]*

14. Find the midpoint given (-2,5) & (2,7)
    [218]

15. Simplify $\frac{x^2+2x-24}{x^2-36}$ *[209]*

16. Given $f(x) = 4x^2 + 6x - 7, find\ f(-1)$
    [231]

17. Multiply $(x^2 + 2x - 3)(x + 8)$ *[213]*

18. Simplify $(3x + 8m)^2$ *[211]*

19. Find the distance between (0,-4) &(5,-8)
    [217]

20. Solve. Show 3+ steps of work *[89]*
    $$4(2x + 9) - (x - 1) = 10x + 1$$