

No Calculator - 20 Minutes Timed

Find videos on each [skill] at www.AlgebraNinja.com Name: _____ Hour: _____

TMT V3 Top 20 Algebra Prep

1. Simplify $1\frac{1}{2} + \frac{2}{7}$ [\[272\]](#)

2. Solve $6x^2 - 10x - 4 = 0$ [\[85\]](#)

3. Find the midpoint given (1,4) & (3,8)
[\[218\]](#)

4. Solve $A = \frac{1}{2}b \cdot h$ for b [\[205\]](#)

5. Simplify $\frac{15x^9y}{25x^2y}$ [\[74\]](#)

6. Simplify $(3a + 7n)^2$ [\[211\]](#)

7. Simplify $\frac{\frac{1}{8}}{\frac{2}{7}}$ [\[50\]](#)

8. Simplify (PEMDAS) $-1(x + 5)^2 + 3$
[\[212\]](#)

9. Clear fractions, solve $\frac{3}{7}a + 2 = \frac{1}{3}$ [\[207\]](#)

10. Simplify $(3a^3b^2)^2 \cdot 2(a^1b^2)$ [\[206\]](#)

11. Simplify $\frac{2 \pm \sqrt{32}}{2}$ [\[214\]](#)

12. Multiply $(x^2 + 2x - 3)(x - 5)$ [\[213\]](#)

13. Solve $(x + 4)^2 = 15$ [\[208\]](#)

14. Simplify $\frac{2x^2 + 10x + 12}{x^2 - 4}$ [\[209\]](#)

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

16. Write an equation using (-1,8) & (-2,-1)
[\[210\]](#)

17. Simplify $\frac{2}{9} \cdot \frac{1}{6}$ [\[42\]](#)

18. Find the distance between (2,10) &(6,1)
[\[217\]](#)

19. Find 3 points on $f(x) = x^2 - 3x + 1$
[\[271\]](#)

X	Y

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