No Cal Find th	culator – 20 N e answer key	linutes Timed at <u>www.AlgebraNinja.com</u>	Name:	Hour:
TMT Equation 20 ACT Prep V2				
1.	Solve for <i>x</i> :	3x + 4 - 10 = 3(x - 2)	11. Solve for <i>x</i> : $2x^2 + 8x - 3 = 7$	
2.	Write and sol 5 more than t number decre	lve the following: twice of a number is equal to a eased by 1.	12. Solve for h in terms of V and r :	$V = \pi r^2 h$
			13. Solve for <i>x</i> : $6x^2 - 12x + 1 = 0$)
3.	Solve for <i>x</i> :	3(x-8) = 4x + 9 - x		
			14. Solve for <i>x</i> : $2 x - 1 = 5$	
4.	Solve for y in	terms of x: $x + 10y = 9x - 2$		
5.	Solve for x in	terms of b: $x + bx = 2$	15. Solve for <i>x</i> : $2^{2x} = 16^{x+1}$ (hint: get the bases the same)	
6.	Use substitut 3x + y = 5 5x - 4y = -	tion to solve for <i>x</i> and <i>y</i> : - 3	16. Write and the solve the system Alan bikes 5 miles per hour. Chi mile head start but bikes at 3 m will it take Alan to catch up to Cl	of equations: ristine has a 2 oh. How long nristine?
7.	Solve for <i>x</i> :	$\log_4 x = -2$	17. Solve for <i>x</i> : $-5x + 21 > 6$	
8.	Using elimina $\begin{cases} 10x + 5y = \\ 2x + 3y = 0 \end{cases}$	ation, solve for x and y : 20 6	18. Solve for <i>x</i> : $3(x+5)^2 - 7 = 20$	D
9.	Solve for x . A $12^x = 7$	Keep in logarithmic form:	 Write and solve the exponential An amazing investment plan has annual interest. If \$500 was orig invested, how many years will it \$105 is added to that amount? 	equation: s a 10% jinally take before
10.	Solve for <i>x</i> :	$\frac{1}{5} + 3x = \frac{3}{4}$	20. Solve for <i>x</i> : $2x^3 + 4x^2 - 6x - 6x$	10 = 2