Chapter 1 practice test

1-4 Solve and graph the following inequalities and equations		
1) $ 2x+5 =7$	2) $ 6x + 4 - 2 = 26$	
3) $4x - 1 > 19$	4) $8 \le 4x - 4 < 20$	
5) Give the opposite of 75	6)Give the reciproca	<u>ll of 75</u>
Matching – choose the <i>best</i> answer – put the letter in the blank (#7-10) Choices:		
7){2, -1, 0, 1, 2, 3}	7)	a)Whole Numbers
8) Examples: $-\frac{1}{3}$, 220, 0.4, -3	8)	b) Integers
9) {0, 1, 2, 3, 4}	9)	c) Irrational Numbers
10) Examples: $\sqrt{5}$, -5, 0, π , -0.5	10)	d) Real Numbers
		e) Rational Numbers

11) Evaluate if x = -2 and y = 8: $\frac{6 - (10 + y) \cdot 3 \div (-x)}{x^4}$ 12) Simplify: 3(48x - 36y) + 10y

13) <u>Solve:</u> |2x - 4| = 20

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14) Graph the following numbers on the given number line: $\sqrt{11}, -\pi, 1.8, \frac{3}{7}, -2.4$



15) If you are driving 40 miles per hour, what is your speed in feet per second?

16) A car salesman earns a \$28,000 yearly salary plus 5 % commission on all car sales. How much money in cars must he sell to earn \$55,000 for the year?

17) If a plane travels at a speed of 520 miles per hour from New York to San Francisco and the flight is 3380 miles, how long does the flight take?

18) Which of the following is a solution of the equation $\frac{x}{4} - 12 = 4$

a) -64 b) -32 c) 32 d) 64

Adaptive Algebra 2 - Chapter 1 practice test

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19) Solve and *Graph* the following equation |2x+9| = 17

20) Solve and Graph the following equation |2x+5|=3x

21) Graph the following on a number line:

a) x>4 and x<7 b) $x \ge 9$ or x < 3

22) The circumference of a circle is 20 feet. Use this information to decipher what the radius of the circle is.