

Name \_\_\_\_\_

MNAS Review Test 02 Period \_\_\_\_\_

1. Divide: $\frac{24x^7y^3 - 21x^4y^3}{3x^2y^3}$	2. If $r = 4$ , $p = -1$ , and $q = 2$ , evaluate $\frac{(r * p)^2 - p * q + 3}{(r - p + q)^2}$
3. Evaluate $[5 - (3^2 + 6)] \times 2$	4. Evaluate : a) $-4 + -5 =$  b) $-7 - -6 =$  c) $(-7 \times -2) \div -2 =$
5. Find the sum of $2x^2 + 2x - 7$ and $x^3 + 3x - 9$	6. From $-3x^2 + 5x - 3$ take $-5x^2 - 4x + 3$ .
7. Solve for x: $6x + 3x - 4 = 32$	8. Solve for x: $7x - 8 - 2x = 64 - 3x$
9. Solve for x: $5x - 8a = 4x + 7a$	10. Find the perimeter of Mr. Reyes garden when the length is represented by $2x - 4$ and the width is $5x$ .

<p>11. What is the value of n in the equation  <math>0.6(n + 10) = 3.6</math></p>	<p>12. Find four consecutive integers whose sum is 110. Must use an algebraic equation to solve.</p>
<p>13. Find three consecutive even integers whose sum is -12.</p>	<p>14. Three brothers have ages that are consecutive integers. The sum of the youngest plus twice the middle brother's age is 20 more than the oldest. Find the age of each of the three boys.</p>
<p>15. Combine:  <math>(3y + z) + (z - 5y) - (2z - 2y)</math></p>	<p>16. The record high temperature in NYC was <math>105^{\circ}</math>: the record low was <math>-9^{\circ}</math>. Find the differences between the temperatures.</p>
<p>17. Use mathematical symbols to translate into algebraic language.  Twice the difference of p and q</p>	<p>18. Jessie and Sam saved \$100. If the amount saved by Jessie is represented by x, represent the amount saved by Sam in terms of x.</p>
<p>19. What is the reciprocal of -6?</p>	<p>20. Solve for x:  <math>-4x + 3(x - 5) = 7</math></p>

Extra Credit:

Multiply  $(x - 5)(x + 8)$