

SAMPLE TEST -- ELEMENTARY ALGEBRA

1. Simplify: $2x - (3x + (2 + x) + 1) =$ _____
2. Solve for x: $3x + 2 = x + 6$
3. Solve for x: $A = x + Rx$
4. If $3x + 2y = 6$, what is y when $x = 1$?
5. $\sqrt{36} =$ _____
6. Graph: $y = 2x - 1$
7. Multiply: $(3x + 2)(x - 1) =$ _____
8. Multiply: $\frac{3x^2y}{5ab} \cdot \frac{15a^3b^2}{9xy}$
9. If $x = 3$ and $y = -2$, then $X^2 y =$ _____
10. Suppose $2x + 1 > x - 3$. Solve for x.
11. $(3x^2y^3)^2 =$ _____
12. If the sum of two numbers is 33 and one number is twice the other, what are the numbers?
13. Factor: $x^2 - x - 12$
14. $\sqrt{16x^4y^3} =$ _____
15. Factor: $X^2 - 16$