

Math Formulas Worksheet

Name _____

Match the descriptions in the left and right columns.

1. _____ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

2. _____ If $a < b$ and if $c > 0$ then $ac < bc$
If $a < b$ and if $c < 0$ then $ac > bc$

3. _____ $|u| = a$ then $u = a$ or $u = -a$

4. _____ $|u| < a$ then $-a < u < a$
 $|u| > a$ then $u < -a$ or $u > a$

5. _____ $d(P_1, P_2) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

6. _____ $M = (x, y) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

7. _____ $m = \frac{y_2 - y_1}{x_2 - x_1}$ $x_1 \neq x_2$

8. _____ $y - y_1 = m(x - x_1)$

9. _____ $y = mx + b$

10. _____ $Ax + By = C$

11. _____ $(x - h)^2 + (y - k)^2 = r^2$

12. _____ m_1 & m_2 are slopes of lines L_1 and L_2 , respectively, and $m_1 \cdot m_2 = -1$.

13. _____ We have $x^2 + mx$, add $\left(\frac{m}{2}\right)^2$ and
get $x^2 + mx + \left(\frac{m}{2}\right)^2 = \left(x + \frac{m}{2}\right)^2$

14. _____ m_1 & m_2 are slopes of lines L_1 and L_2 , respectively, and $m_1 = m_2$

A. Distance Formula

B. Slope-intercept form of line equation

C. Midpoint formula

D. General form of a line equation

E. Quadratic Formula

F. Standard form of an equation of a circle

G. Formula for equations involving absolute value

H. Multiplication Properties for Inequalities

I. Criterion for perpendicular lines

J. Completing the square

K. Criterion for parallel lines

L. Point-slope form of line equation

M. Formula for inequalities involving absolute value

N. Formula for the slope of a line