

## Grade 8 Formula Sheet

**You may use the following formulas to solve problems on this test.**

Pythagorean theorem	$a^2 + b^2 = c^2$
Distance formula	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Slope of a line	$m = \frac{y_2 - y_1}{x_2 - x_1}$
Slope-intercept form	$y = mx + b$
Point-slope form	$y - y_1 = m(x - x_1)$
Standard form	$Ax + By = C$
Arithmetic sequence	$f(x) = mx + b$
Geometric sequence	$f(x) = a(b)^x$