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

**Grade 8 Formula Sheet** 

Pythagorean theorem	$a^2+b^2=c^2$
Distance	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

 $m = \frac{y_2 - y_1}{x_2 - x_1}$ 

V = mx + b

 $y - y_1 = m(x - x_1)$ 

Ax + By = C

f(x) = mx + b

 $f(x) = a(b)^{x}$ 

formula

Slope of a line

Slope-intercept

form

Point-slope

form

Standard form

**Arithmetic** 

sequence

Geometric

sequence