

SOUTH AFRICAN COLLEGE HIGH SCHOOL

Grade 9

Mathematics

February 2023

PRACTICE TEST

25 Marks 30 Mins

NAME: _____



Simplify as far as possible:

1. $5p - 2p(p + 3)$

2. $[2]$
 $\left(2t - \frac{1}{3}\right)^2$

3. $[3]$
 $2(x - 3)^2 - 4(2x - 3) - (x - 2)(x + 2)$

[5]

Factorise fully:

4. $\frac{4}{81} - x^6$

5. $\frac{[2]}{a^3(x+y) - a(y+x)}$

[3]

Simplify as far as possible:

8. $\frac{p^2 - 4p}{6p^2 - 4p^3} \div \frac{2p^2 - 18p + 40}{4p^2 - 9} \times \frac{3p^2 - 15p}{6p + 9}$

[5]

Solve for the x in each of the following equations:

9. $\frac{x}{3} - \frac{3x - 6}{6} = \frac{x - 6}{2} - 2$

[5]

