

## Algebra Review Quiz Chapters 1-12 C

- \_\_\_\_\_ 1. Factor completely:  $6a^2b^5 + 9a^5b^4$
- \_\_\_\_\_ 2.  $\frac{-10}{\frac{-5}{9}} =$
- \_\_\_\_\_ 3. Four people are going to invest in a new restaurant. Three of the four are woman and one is a man. Each woman invests twice as much as the man. The four invested a total of \$420,000. How much did each woman invest?
- \_\_\_\_\_ 4. Without a calculator, find  $(2\sqrt{7})(3\sqrt{7}) =$
- \_\_\_\_\_ 5. A sailboat leaves the dock and travels 14 km due west. It then turns and travels 20 km due north. How far away from the dock is it now?
- \_\_\_\_\_ 6. Evaluate  $\frac{8!}{6!}$
- \_\_\_\_\_ 7. Simplify:  $\sqrt{8a^2b^4}$
- \_\_\_\_\_ 8.  $\frac{2n+1}{4} + \frac{5n-3}{2} =$
- \_\_\_\_\_ 9. Solve for b:  $\frac{5ny}{7b} = 5$