

Name: _____

College Algebra: Review (Prereq)

Show your work on a separate sheet of paper.

1. Simplify.

(a) $7(15 + 2)$

(b) $2(11 - 17)$

2. Add.

(a) $\frac{5}{6} + \frac{1}{2}$

(b) $\frac{9}{5} + \frac{1}{9}$

3. Solve the following equations.

(a) $7x + 2 = 9$

(b) $29x + 81 = 23$

(c) $\frac{7}{4}x - 3 = 4$

(d) $\frac{1}{5}x + \frac{3}{5} = 7$

(e) $\frac{1}{9}x + \frac{8}{3} = -1$

(f) $8x + 5 = 5x - 4$

(g) $3(5x - 8) = -8$

4. Simplify.

(a) 5^4

(b) $(-4)^2$

(c) -3^3

(d) 2^{-2}

(e) $(\frac{1}{3})^2$

5. Perform the indicated operations.

(a) $(1 + 2i) + (3 - i)$

(b) $(1 - i)(2 + 2i)$

(c) $(2 + i)^2$