

Algebra Quiz Review

Answer the following on your POD paper. Show each step the way we do in class!

1. Solve the following algebra equations and show each step. All answers will be whole numbers.

a. $\frac{x}{3} + 17 = 29$

b. $-8x - 22 = 26$

c. $7x + 5 = 3x - 23$

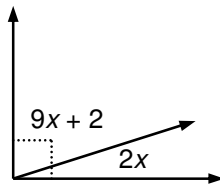
d. $2x - 62 = -4x - 8$

e. $4(2x + 9) = -3x - 19$

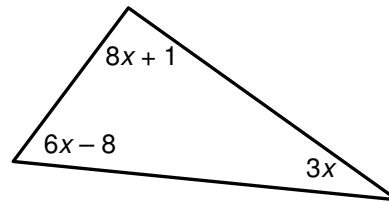
f. $6(3x - 4) - 11x = 18$

2. For each of the following diagrams, write and solve an equation to find the unknown information.

a. Find the measure of both angles.



b. Find the measure of each interior angle.



3. Solve the following algebra equations and show each step. Give all answers as reduced fractions.

a. $12x - 14 = 2$

b. $-8x + 33 = 5$

c. $31x - 2 = 4x + 1$

d. $-3x - 17 = -9x - 31$

e. $12(2x - 5) = -27$

f. $19x + 4 = 9(x - 2)$

4. Solve the following algebra equations and show each step. All answers will be whole numbers.

a. $6x + 7x + 12 = 2x + 3x + 50 + 18$

b. $11x + 40 - 14 = 9x - 5x - 2$

c. $2(3x - 19) = x + 7$

d. $3(2x - 5) = 4x - 3$

e. $5x - 1 = 2(3x + 4) + 2x$

f. $4(2x + 1) - 3x = 4x - 1$