

Distributive Property and Proportions

Date _____ Period _____

Simplify each expression.

1) $-3(3 - 10v)$

2) $10(-10v - 10)$

3) $9(2 + 5x)$

4) $-4(-4 - 7r)$

5) $-8(x - 7)$

6) $7(1 - 6x)$

$$7) 10(5b - 6)$$

$$8) -4(2b - 8)$$

$$9) -9(n + 10)$$

$$10) 9(-9 - 10x)$$

Solve each proportion.

$$11) \frac{x + 1}{x - 5} = \frac{4}{12}$$

$$12) \frac{8}{n + 10} = -\frac{7}{n + 7}$$

$$13) \frac{12}{10} = \frac{x+12}{x-3}$$

$$14) \frac{b-2}{b-9} = \frac{9}{10}$$

$$15) \frac{x+2}{7} = \frac{x+7}{11}$$

$$16) \frac{x-11}{8} = \frac{x-4}{5}$$

$$17) \frac{x+3}{3} = \frac{x-7}{2}$$

$$18) \frac{11}{n-2} = \frac{7}{n+12}$$

$$19) \frac{p+8}{11} = \frac{p+12}{9}$$

$$20) \frac{r-11}{11} = \frac{r-10}{4}$$

$$21) \frac{5}{r+11} = \frac{8}{r+5}$$

$$22) \frac{b+9}{b-5} = \frac{7}{4}$$