

Name Key

Date _____

Mrs. Roubos

8R Period _____

Homework # 26

Solve the following for x:

| | |
|---|--|
| <p>1) $3(x+3) = 12$</p> <p>D $3x + 9 = 12$</p> <p>C $\quad \quad -9$</p> <p>M $\hline 3x = 3$</p> <p>S $\quad \quad \quad \frac{3}{3} \quad \frac{3}{3}$</p> <p>$x = 1$</p> | <p>2) $5(x+2) - 3x = 12$</p> <p>D $5x + 10 - 3x = 12$</p> <p>C $2x + 10 = 12$</p> <p>M $\quad \quad -10$</p> <p>S $\hline 2x = 2$</p> <p>$\quad \quad \quad \frac{2}{2} \quad \frac{2}{2}$</p> <p>$x = 1$</p> |
| <p>3) $2(x-3) = 8$</p> <p>D $2x - 6 = 8$</p> <p>C $\quad \quad +6$</p> <p>M $\hline 2x = 14$</p> <p>S $\quad \quad \quad \frac{2x}{2} = \frac{14}{2}$</p> <p>$x = 7$</p> | <p>4) $5x + 2 = 3(x-2)$</p> <p>D $5x + 2 = 3x - 6$</p> <p>C $-3x \quad -3x$</p> <p>M $\hline 2x + 2 = -6$</p> <p>S $\quad \quad -2 \quad -2$</p> <p>$\hline 2x = -8$</p> <p>$\quad \quad \quad \frac{2x}{2} = \frac{-8}{2}$</p> <p>$x = -4$</p> |
| <p>5) $3x + 2(2x-1) = 33$</p> <p>D $3x + 4x - 2 = 33$</p> <p>C $7x - 2 = 33$</p> <p>M $\quad \quad +2$</p> <p>S $\hline 7x = 35$</p> <p>$\quad \quad \quad \frac{7x}{7} = \frac{35}{7}$</p> <p>$x = 5$</p> | <p>6) $4(x-2) - 2x = 5x - 20$</p> <p>D $4x - 8 - 2x = 5x - 20$</p> <p>C $2x - 8 = 5x - 20$</p> <p>M $\quad \quad -2x \quad -2x$</p> <p>S $\hline -8 = 3x - 20$</p> <p>$\quad \quad +20 \quad +20$</p> <p>$\hline 12 = 3x$</p> <p>$\quad \quad \quad \frac{12}{3} = \frac{3x}{3}$</p> <p>$4 = x$</p> <p>$x = 4$</p> |