

Chap 1 Sec 4

Pg. 7

$$7) 3(z + 7) = 21$$

$$3z + 21 = 21$$

$$\underline{-21 \quad -21}$$

$$\frac{3z}{3} = \frac{0}{3}$$

$$z = 0$$

$$8) -4(a - 12) + 7 = 42$$

$$-4a + 48 + 7 = 42$$

$$-4a + 55 = 42$$

$$\underline{-55 \quad -55}$$

$$\frac{-4a}{-4} = \frac{-13}{-4}$$

$$a = \frac{13}{4}$$

$$9) \quad 33 = 12r - 3(9-r)$$

$$33 = \underline{12r} - 27 + \underline{3r}$$

$$33 = 15r - 27$$

$$+27 \qquad +27$$

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$$\underline{60} = \underline{15r}$$

$$15 \quad 15$$

$$4 = r$$

$$11) \quad 5(y+8) - \frac{1}{2}(1-y) = 1$$

$$5y + 40 - \frac{1}{2} + \frac{1}{2}y = 1$$

$$\frac{11}{2}y + \frac{79}{2} = 1$$

$$\underline{-\frac{79}{2}} \quad \underline{-\frac{79}{2}}$$

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$$2\left(\frac{11}{2}y\right) = \left(\frac{-77}{2}\right)2$$

$$\frac{11y}{11} = \frac{-77}{11}$$

$$y = -7$$