

Algebra I

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1)	$\{6\}$	11)	$\{16\}$	21)	$\{-5\}$
2)	$\{8\}$	12)	$\{37\}$	22)	$\{-3\}$
3)	$\{-3\}$	13)	$\{-13\}$	23)	$\{15\}$
4)	$\{-7\}$	14)	$\{-7\}$	24)	$\{16\}$
5)	$\{-7\}$	15)	$\{18\}$	25)	$\{5\}$
6)	$\{-3\}$	16)	$\{-7\}$	26)	$\{2\}$
7)	$\{-2\}$	17)	$\{0\}$	27)	$\{5\}$
8)	$\{36\}$	18)	$\{3\}$	28)	$\{8\}$
9)	$\{12\}$	19)	$\{4\}$	29)	$\{2\}$
10)	$\{35\}$	20)	$\{-2\}$	30)	$\{8\}$

$$2) 3y - 8 = 16$$

$$3y - 8 + 8 = 16 + 8$$

$$\frac{3y}{3} = \frac{24}{3}$$

$$y = 8$$

$$\{8\}$$

$$4) 5c + 7 = -28$$

$$5c + 7 + (-7) = -28 + (-7)$$

$$\frac{5c}{5} = \frac{-35}{5}$$

$$c = -7$$

$$\{-7\}$$

$$8) \frac{2}{3}p - 7 = 17$$

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

$$\frac{2}{3}p = 24$$

$$\frac{2p}{2} = \frac{72}{2}$$

$$p = 36$$

$$\{36\}$$

$$5) -2x + 5 = 19$$

$$-2x + 5 + (-5) = 19 + (-5)$$

$$\frac{-2x}{-2} = \frac{14}{-2}$$

$$x = -7$$

$$\{-7\}$$

$$10) \frac{4y}{5} = 28$$

$$\frac{4y}{4} = \frac{140}{4}$$

$$y = 35$$

$$\{35\}$$

$$14) \left( \frac{5-n}{3} = 4 \right) \cdot 3$$

$$5-n = 12$$

$$5+(-5)-n = 12+(-5)$$

$$-n = 7$$

$$n = -7$$

$$\{-7\}$$

$$23) 2(x-4) = 22$$

$$2x - 8 = 22$$

$$2x - 8 + 8 = 22 + 8$$

$$\frac{2x}{2} = \frac{30}{2}$$

$$x = 15$$

$$\{15\}$$

$$18) 2a - 11a = -27$$

$$\frac{-9a}{-9} = \frac{-27}{-9}$$

$$a = 3$$

$$\{3\}$$

$$24) 3(y-7) = 27$$

$$3y - 21 = 27$$

$$3y - 21 + 21 = 27 + 21$$

$$\frac{3y}{3} = \frac{48}{3}$$

$$y = 16$$

$$\{16\}$$