

- 4) $\{\pm 36\}$
- 6) $\{\pm 9, 2\}$
- 8) $\{\pm 7, 4\}$
- 10) $\{23/4, -13/4\}$
- 12) $\{-6, -10\}$
- 14) $\{22, -6\}$
- 16) $\{7, -5\}$
- 18) $\{1, -13/3\}$
- 20) $\{0, -2/5\}$
- 22) Should be \emptyset
- 24) \emptyset
- 26) \emptyset
- 28) $\{-5, -10\}$
- 30) \emptyset
- 32) D

12) $|a+8| = 2$ 16) $4|b-1| - 7 = 17$

$$a+8 = \pm 2$$

$$a+8 - 8 = \pm 2 - 8$$

$$a = -6, -10$$

$$\{-6, -10\}$$

$$4|b-1| = 24$$

$$|b-1| = 6$$

$$b-1 = \pm 6$$

$$b-1+1 = 1 \pm 6$$

$$b = 7 \text{ or } -5$$

$$\{7, -5\}$$

18) $\frac{7}{4}|3j+5| + 1 = 15$

$$\frac{7}{4}|3j+5| + 1 - 1 = 15 - 1$$

$$\frac{7}{4}|3j+5| = 14$$

$$|3j+5| = 8$$

$$3j+5 = \pm 8$$

$$3j+5 - 5 = \pm 8 - 5$$

$$3j = \frac{3}{3} \text{ or } \frac{-13}{3}$$

$$j = 1 \text{ or } -\frac{13}{3}$$

$$\{1, -\frac{13}{3}\}$$

28) $\frac{-5}{-5}|\frac{4}{3}w+6| = \frac{-10}{-5}$

$$|\frac{4}{3}w+6| = 2$$

$$\frac{4}{3}w+6 = \pm 2$$

$$\frac{4}{3}w+6-6 = \pm 2-6$$

$$\frac{4}{3}w = -4 \text{ or } -8$$

$$w = -3 \text{ or } -6$$

$$\{-3, -6\}$$

30) $-2|\frac{1}{3}s-5| + 3 = 8$

$$-2|\frac{1}{3}s-5| + 3 - 3 = 8 - 3$$

$$-2|\frac{1}{3}s-5| = 5$$

$$|\frac{1}{3}s-5| = -\frac{5}{2}$$

$$\emptyset$$