Algebra I

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	Part A	Part B
2)	7	
4)	$\varnothing$	
6)	$\pm\sqrt{26}$	± 5.10
8)	$\pm 4\sqrt{3}$	± 6.93
10)	$\pm 3\sqrt{6}$	± 7.35
12)	$\pm\sqrt{6}$	± 2.45

	Part A	Part B
14)	± 3	
16)	$-10, -2$	
18)	$-2 \pm 2\sqrt{3}$	1.46 -5.46
20)	$3 \pm 4\sqrt{2}$	8.66 -2.66
22	$8 \pm \sqrt{5}$	10.24 5.76
24)	$-5 \pm \sqrt{7}$	-2.35 -7.65

	Part A	Part B
30)	$\pm\frac{3}{4}$	± 0.75
32)	$\pm\sqrt{29}$	± 5.39
34)	± 2	
36)	$\frac{-10 \pm \sqrt{3}}{5}$	-1.65 -2.35
38)	$\varnothing$	

8) $x^2 - 48 = 0$

$\sqrt{x^2} = \sqrt{48}$

$|x| = \sqrt{16 \cdot 3}$

$\pm 4\sqrt{3}$

16) $\sqrt{(x+6)^2} = \sqrt{16}$

$|x+6| = 4$

$x + 6 = \pm 4$

$x = -6 \pm 4$

$\{-2, -10\}$

18) $\sqrt{(y+2)^2} = \sqrt{12}$

$|y+2| = \sqrt{4 \cdot 3}$

$y + 2 = \pm 2\sqrt{3}$

$y = -2 \pm 2\sqrt{3}$

20) $\sqrt{(z-3)^2} = \sqrt{32}$

$|z-3| = \sqrt{16 \cdot 2}$

30) $\frac{1}{4}t^2 - \frac{9}{64} = 0$

$\left(\frac{1}{4}t^2 = \frac{9}{64}\right) \cdot 4$

$\sqrt{t^2} = \sqrt{\frac{9}{16}}$

$|t| = \frac{3}{4}$

$\left\{\pm\frac{3}{4}\right\}$

36) $\frac{5(t+2)^2}{5} = \frac{3}{5}\cdot\frac{1}{5}$

$\sqrt{(t+2)^2} = \sqrt{\frac{3}{25}}$

$|t+2| = \frac{\sqrt{3}}{5}$

$t + 2 = \pm\frac{\sqrt{3}}{5}$

$\left\{-2 \pm \frac{\sqrt{3}}{5}\right\}$

$\frac{-10 \pm \sqrt{3}}{5}$

38) $\sqrt{\left(y - \frac{3}{5}\right)^2} = \sqrt{-\frac{8}{9}}$

$\varnothing$