

Algebra I

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	Part A	Part B		Part A	Part B
2)	5	5	20)	438.79	218+25√78
4)	-62	-62	22)	-4.79	114-84√2
6)	12	12	24)	0.27	2-√3
8)	30.81	70-16√6	26)	-2.82	$\frac{\sqrt{7}+3}{-2}$
10)	244.89	169+24√10	28)	8.16	$\frac{17+7\sqrt{5}}{4}$
12)	38.50	66-6√21	30)	0.09	$\frac{\sqrt{5}-2\sqrt{3}-\sqrt{5}+2}{2}$
14)	43	43	32)	1.70	$\frac{15\sqrt{5}+25}{38}$
16)	680	680	34)	.35	$\frac{6\sqrt{2}-2\sqrt{6}-6+2\sqrt{3}}{3}$
18)	-9.46	16-18√2			

$$8) (8-\sqrt{6})^2$$

$$(8-\sqrt{6})(8-\sqrt{6})$$

$$64 - 8\sqrt{6} - 8\sqrt{6} + \sqrt{36}$$

$$70 - 16\sqrt{6}$$

$$10) (4\sqrt{10}+3)^2$$

$$(4\sqrt{10}+3)(4\sqrt{10}+3)$$

$$16\sqrt{100} + 12\sqrt{10} + 12\sqrt{10} + 9$$

$$160 + 24\sqrt{10} + 9$$

$$169 + 24\sqrt{10}$$

$$14) (3\sqrt{5}-\sqrt{2})(3\sqrt{5}+\sqrt{2})$$

$$9\sqrt{25} - \sqrt{4}$$

$$45 - 2$$

$$43$$

$$18) (6\sqrt{2}+4)(3\sqrt{2}-5)$$

$$18\sqrt{4} - 30\sqrt{2} + 12\sqrt{2} - 20$$

$$16 - 18\sqrt{2}$$

$$22) (8\sqrt{6}-2\sqrt{3})(2\sqrt{6}-3\sqrt{3})$$

$$16\sqrt{36} - 24\sqrt{18} - 4\sqrt{18} + 6\sqrt{9}$$

$$96 - 28\sqrt{18} + 18$$

$$114 - 28\sqrt{2}$$

$$114 - 84\sqrt{2}$$

$$24) \frac{1}{(2+\sqrt{3})(2-\sqrt{3})}$$

$$\frac{2-\sqrt{3}}{4-\sqrt{9}}$$

$$\frac{2-\sqrt{3}}{4-3}$$

$$2-\sqrt{3}$$

$$28) \frac{(4+\sqrt{5})(3+\sqrt{5})}{(3-\sqrt{5})(3+\sqrt{5})}$$

$$\frac{12+4\sqrt{5}+3\sqrt{5}+\sqrt{25}}{9-\sqrt{25}}$$

$$\frac{17+7\sqrt{5}}{4}$$

$$34) \frac{(6-2\sqrt{3})(3\sqrt{2}-3)}{(3\sqrt{2}+3)(3\sqrt{2}-3)}$$

$$\frac{18\sqrt{2} - 18 - 6\sqrt{6} + 6\sqrt{6}}{9\sqrt{4} - 9}$$

$$\frac{18\sqrt{2} - 18 - 6\sqrt{6} + 6\sqrt{6}}{9 \cdot 2 - 9}$$

$$\frac{6\sqrt{2} - 6 - 2\sqrt{6} + 2\sqrt{6}}{3}$$