Math II

›ns by Taking the Square Root of Both Sides

1. $x^2 = 25$
2. $x^2 = 1$
3. $x^2 = 0$
4. $x^2 = 45$
5. $x^2 = 120$
6. $x^2 = -4$
7. $x^2 + 6 = 42$
8. $4x^2 = 64$
9. $x^2 + 4 = 3$
10. $x^2 + 3 = 4$
11. $x^2 + 9 = 16$
12. $x^2 - 1 = 7$
13. $2x^2 - 7 = 43$
14. $-4x^2 + 1 = -15$
15. $\frac{1}{2}x^2 - 5 = 3$
16. $-2x^2 + 2 = 4$
17. $5x^2 + 9 = 29$
18. $8x^2 - 17 = 7$
19. $(x-7)^2 - 6 = 43$
20. $2(x-2)^2 = 2$
21. $\frac{1}{3}(x+5)^2 - 1 = 2$
22. $(x-6)^2 + 5 = 4$
23. $(x+2)^2 + 9 = 29$
24. $4(x-10)^2 - 7 = 28$

1 $\sqrt{x^2} = \sqrt{25}$

$x = \pm 5$

$5 \cdot 5 = 25$

$-5 \cdot -5 = 25$

2 $\sqrt{x^2} = \sqrt{1}$

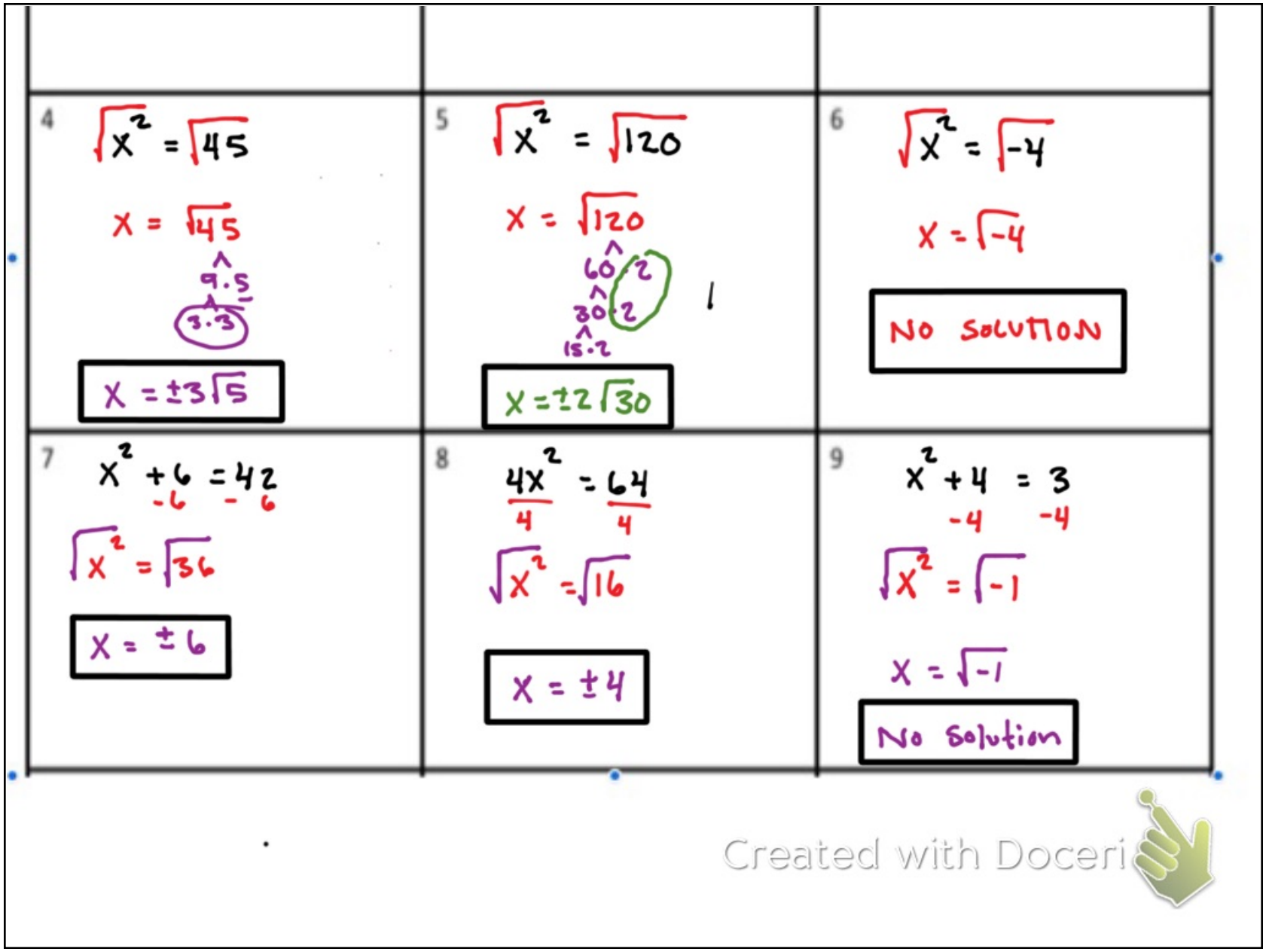
$x = \pm 1$

3 $\sqrt{x^2} = \sqrt{0}$

$x = 0$

4

5


4
$\sqrt{x^2} = \sqrt{45}$
$x = \sqrt{45}$
9 · 5
3 · 3
$x = \pm 3\sqrt{5}$
5
$\sqrt{x^2} = \sqrt{120}$
$x = \sqrt{120}$
60 · 2
30 · 2
15 · 2
$x = \pm 2\sqrt{30}$
6
$\sqrt{x^2} = \sqrt{-4}$
$x = \sqrt{-4}$
NO SOLUTION
7
$x^2 + 6 = 42$
$-6 \quad -6$
$\sqrt{x^2} = \sqrt{36}$
$x = \pm 6$
8
$\frac{4x^2}{4} = \frac{64}{4}$
$\sqrt{x^2} = \sqrt{16}$
$x = \pm 4$
9
$x^2 + 4 = 3$
$-4 \quad -4$
$\sqrt{x^2} = \sqrt{-1}$
$x = \sqrt{-1}$
No Solution
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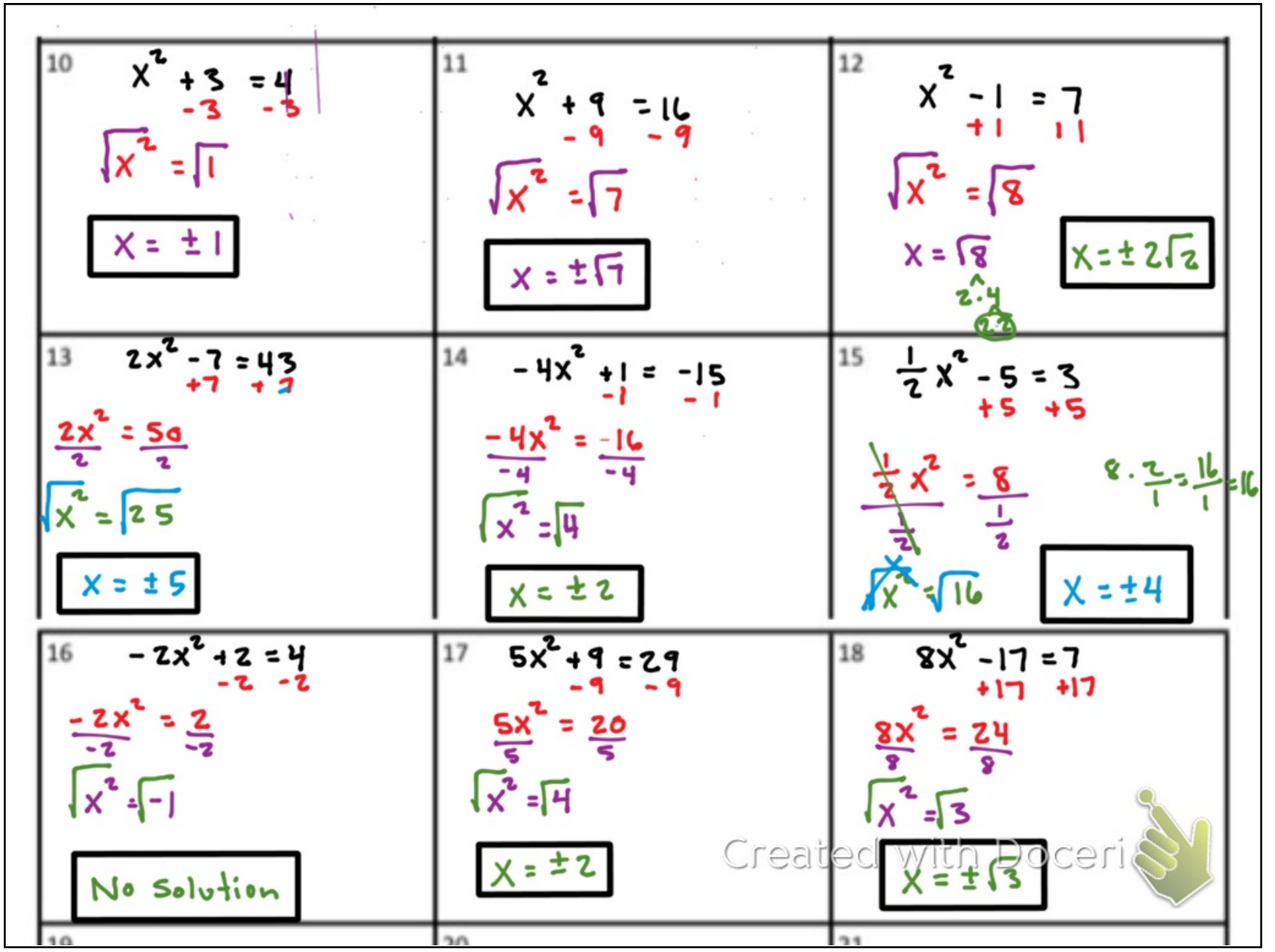
10
$x^2 + 3 = 4$
$-3 \quad -3$
$\sqrt{x^2} = \sqrt{1}$
$x = \pm 1$
11
$x^2 + 9 = 16$
$-9 \quad -9$
$\sqrt{x^2} = \sqrt{7}$
$x = \pm\sqrt{7}$
12
$x^2 - 1 = 7$
$+1 \quad +1$
$\sqrt{x^2} = \sqrt{8}$
$x = \sqrt{8}$
$2 \cdot 4$
$x = \pm 2\sqrt{2}$
13
$2x^2 - 7 = 43$
$+7 \quad +7$
$\frac{2x^2}{2} = \frac{50}{2}$
$\sqrt{x^2} = \sqrt{25}$
$x = \pm 5$
14
$-4x^2 + 1 = -15$
$-1 \quad -1$
$\frac{-4x^2}{-4} = \frac{-16}{-4}$
$\sqrt{x^2} = \sqrt{4}$
$x = \pm 2$
15
$\frac{1}{2}x^2 - 5 = 3$
$+5 \quad +5$
$\frac{\frac{1}{2}x^2}{\frac{1}{2}} = \frac{8}{\frac{1}{2}}$
$8 \cdot \frac{2}{1} = \frac{16}{1} = 16$
$\sqrt{x^2} = \sqrt{16}$
$x = \pm 4$
16
$-2x^2 + 2 = 4$
$-2 \quad -2$
$\frac{-2x^2}{-2} = \frac{2}{-2}$
$\sqrt{x^2} = \sqrt{-1}$
No Solution
17
$5x^2 + 9 = 29$
$-9 \quad -9$
$\frac{5x^2}{5} = \frac{20}{5}$
$\sqrt{x^2} = \sqrt{4}$
$x = \pm 2$
18
$8x^2 - 17 = 7$
$+17 \quad +17$
$\frac{8x^2}{8} = \frac{24}{8}$
$\sqrt{x^2} = \sqrt{3}$
$x = \pm\sqrt{3}$
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