

45°-45°-90° Δ's Practice

① $y = 5$
 $x = 5\sqrt{2}$

② $y = 8\sqrt{2}$
 $x = 16$

③ $y = 7$
 $x = 7\sqrt{2}$

④ $b = 14$
 $a = 14\sqrt{2}$

⑤ $y = 10\sqrt{2}$
 $x = 20$

⑥ $a = b = 9$

⑦ $x = y = 12$

⑧ $x = y = 15$

⑪ $v = 6\sqrt{2}$
 $u = 12$

⑫ $x = y = 18$

⑬ $x = y = \frac{15\sqrt{2}}{2}$

⑭ $u = v = 14\sqrt{2}$

⑮ $y = x = \frac{9\sqrt{2}}{2}$

⑯ $v = 9\sqrt{2}$
 $u = 18$

⑰ $y = 14$
 $x = 14\sqrt{2}$

⑱ $u = v = 9\sqrt{2}$

4 "styles" of problems:

Given whole # leg: 1, 3, 4, 17

Given whole # hypotenuse: 13, 14, 15, 18

Given $\sqrt{2}$ in leg: 2, 5, 11, 16

Given $\sqrt{2}$ in hypotenuse: 6, 7, 8, 12