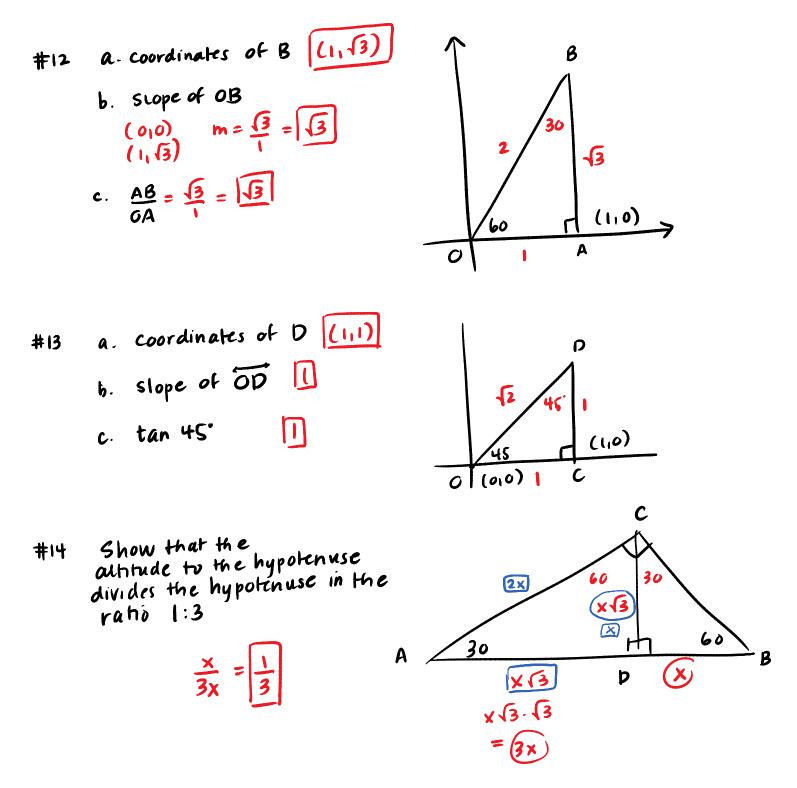
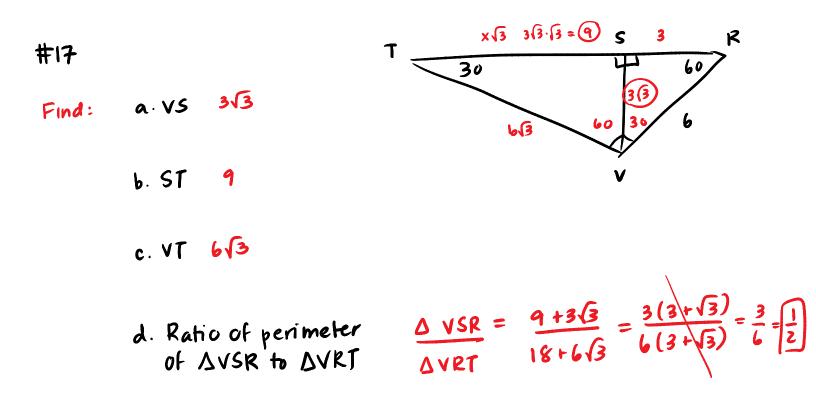
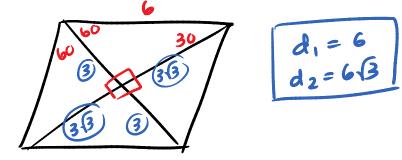
pgs. 409 - 411 #12 - 14, 17, 18, 20, 21, 25, 27

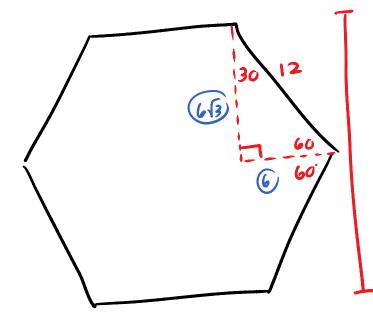




† S One of the angles of a rhombus has a measure of 120. If the perimeter of the rhombus is 24, find the length of each diagonal.



#20 Find the span

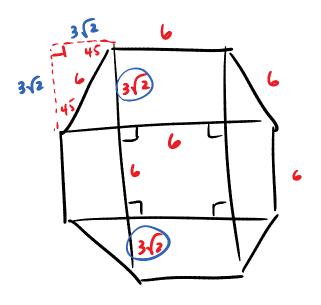


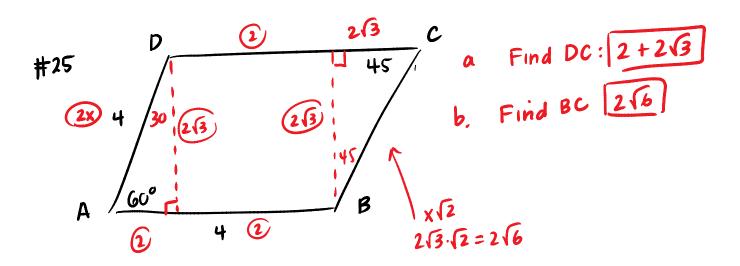
$$ext = \frac{360}{6} = 60$$

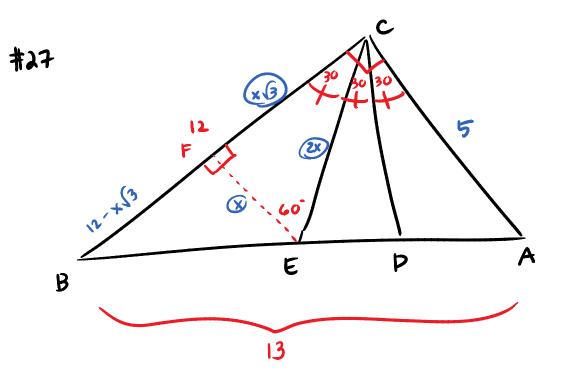
int = 120

#21

a. Find perimeter = 6(8) = 48b. Find span : $\frac{x\sqrt{2}}{\sqrt{2}} = 6 \cdot \frac{52}{\sqrt{2}}$ $\frac{\sqrt{2}}{\sqrt{2}} = \frac{5}{\sqrt{2}} = 3\sqrt{2}$ $x = \frac{6\sqrt{2}}{2} = 3\sqrt{2}$ Span = $\frac{6+3\sqrt{2}+3\sqrt{2}}{5}$ $= \frac{6+6\sqrt{2}}{5}$







 $\Delta BEF \sim \Delta BAC \text{ by } AA \sim$ $\frac{EF}{AC} = \frac{BF}{BC}$ $\frac{\chi}{5} = \frac{12 - \chi\sqrt{3}}{12}$ $12x = 60 - 5\chi\sqrt{3}$ $12x + 5\chi\sqrt{3} = 60$ $\chi(12 + 5\sqrt{3}) = 60$ $\chi = \frac{60}{12 + 5\sqrt{3}}$ $\chi = \frac{60}{12 + 5\sqrt{3}} = 5 + \frac{12}{\sqrt{3}}$