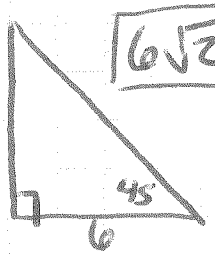
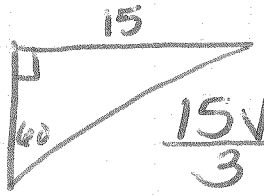
4.1 Get Ready

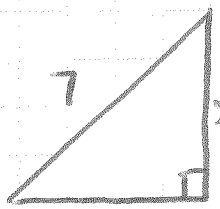
219: 1-13

1. 

$6\sqrt{2}$

2. 

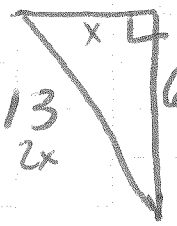
$\frac{15\sqrt{3}}{3} = 5\sqrt{3}$

3. 

$\frac{7}{\sqrt{2}} = \frac{x\sqrt{2}}{\sqrt{2}}$

$x = \frac{7\sqrt{2}}{2}$

$= 3.5\sqrt{2}$

4. 

$30°$

5. 4, 8, 12

$4+8=12$ NO

6. 12, 15, 18

$12+15=27$ yes

7. x, $x+17$, 25

$a^2+b^2=c^2$

$x^2+(x^2+17)^2=25^2$

$x^2+x^2+34x+289=625$

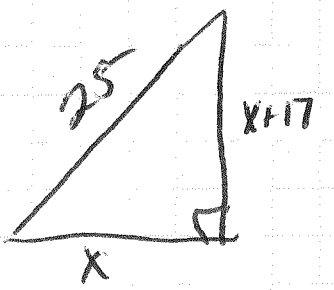
$2x^2+34x-336=0$

$x^2+17x-168=0$

$(x+24)(x-7)=0$

$x=-24$, $x=7$

not possible →



8. $\frac{x^2-4}{x^2+8}$ HA $y=1$ VA none

9. $\frac{x^3-27}{x+5}$ HA none VA $x=-5$

10. $\frac{x(x-1)^2}{(x-2)(x+4)}$ HA none VA $x=2, x=-4$

11. $\frac{x+5}{(x-3)(x-5)}$ HA $y=0$ VA $x=3, x=5$

12. $\frac{x^2+x-20}{x+5}$ no HA no VA

$\frac{(x+5)(x-4)}{x+5}$

13. $\frac{2x^2+5x-12}{2x-3} = \frac{(2x-3)(x+4)}{2x-3}$

no HA no VA