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Common Core Geometry Period: \_\_\_\_\_\_\_\_\_\_\_\_\_

Constructions – Equilateral – HOMEWORK #2

1. On the lines below, describe the steps you would take to **CONSTRUCT** an equilateral triangle using a compass and a straightedge. Be as precise as possible using Geometric terms and proper labels.

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Solve for y in the following equations

 2. $4x+2y=10$ 3. $3x-y=7$

 4. $12-3y=27x$ 5. $\frac{y}{2}-5x=-1$

Solve the following equations

 6. $x^{2}+12+11x+5+13x-17=180$ 7. $12x-4+7x+13=180$

 8. $3x+1+4x-17+5x-20=180$ 9. $4x+20+3x-15=180$

Solve the following proportions

 10. $\frac{x}{16.60}=\frac{1.65}{4.15}$ 11. $\frac{x}{3}=\frac{12}{x}$

 12. $\frac{9}{14}=\frac{9.2}{x}$ 13. $\frac{12}{30}=\frac{5}{x}$

 (Round to the nearest 10th)