1.) In the xy-plane, the parabola with equation $y=\left(x-11\right)^{2}$ intersects the line with the equation y = 25 at two points A and B. What is the length of $AB$?

A) 10

B) 12

C) 14

D) 16

2.) The line $y=kx+4$, where $k$ is a constant, is graphed in the xy-plane. If the line contains the point $(c, d)$, where $c\ne 0$ and $d\ne 0$, what is the slope of the line in terms of c and d?

A) $\frac{d-4}{c}$

B) $\frac{c-4}{d}$

C) $\frac{4-d}{c}$

D) $\frac{4-c}{d}$

**Bellwork #20– Practice SAT Problems**

**March 9th, 2020 H. Geometry**

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3.) Which of the following is equal to $a^{\frac{2}{3}}$, for all values of $a?$

A) $\sqrt{a^{\frac{1}{3}}}$

B) $\sqrt{a^{3}}$

C) $\sqrt[3]{a^{\frac{1}{2}}}$

D) $\sqrt[3]{a^{2}}$

4.) If $\frac{5}{x}= \frac{15}{x+20}$ , what is the value of $\frac{x}{5}$?

A) 10

B) 5

C) 2

D) $\frac{1}{2}$

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