

Bellwork Alg 2 Monday, November 26, 2018

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

- A. 10 B. 12 C. 14 D. 16

Write each in radical form.

2. $5G^{\frac{7}{2}}$

3. $(2A)^{-\frac{3}{5}}$

4. $B^{1.31}$

Write in exponential form.

5. $3 \cdot \sqrt[2]{m^7}$

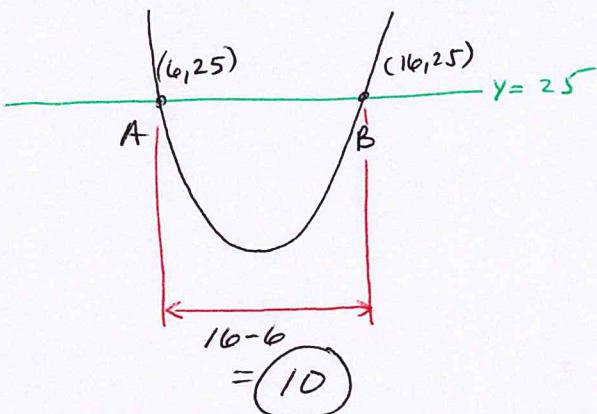
6. $\sqrt[3]{7a^2}$

Bellwork Alg 2 Monday, November 26, 2018

ANSWERS

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

- A. 10 B. 12 C. 14 D. 16



$$\sqrt{25} = \sqrt{(x-11)^2}$$

$$\pm 5 = x - 11$$

$$+11 \quad +11$$

$$x = +5 + 11 = 16$$

$$-5 + 11 = 6$$

$$\underline{\underline{x = 6, 16}}$$

Write each in radical form.

2. $5G^{\frac{7}{2}}$

$$\boxed{5\sqrt[7]{G^7}}$$

or

$$5(\sqrt[7]{G})^7$$

3. $(2A)^{-\frac{3}{5}}$

$$\boxed{\begin{aligned} &\frac{1}{\sqrt[5]{(2A)^3}} \\ \text{or} \quad &\frac{1}{(\sqrt[5]{2A})^3} \\ \text{or} \quad &\sqrt[5]{\frac{1}{(2A)^3}} \end{aligned}}$$

4. $B^{1.31} \quad 1.31 = 1\frac{31}{100} = \frac{131}{100}$

$$B^{\frac{131}{100}}$$

$$= \boxed{\sqrt[100]{B^{131}} \quad \text{or} \quad (\sqrt[100]{B})^{131}}$$

Write in exponential form.

5. $3 \cdot \sqrt[7]{m^7}$

$$\boxed{3 m^{\frac{7}{2}}}$$

6. $\sqrt[3]{7a^2}$

$$\boxed{(7a^2)^{\frac{1}{3}}} \quad \text{or} \quad \boxed{7^{\frac{1}{3}} a^{\frac{2}{3}}}$$