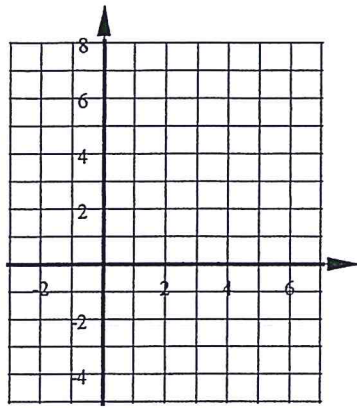


Algebra 1 Bellwork Monday, April 27, 2015

1. Graph this quadratic function using at least 5 points. $y = -3x^2 + 24x - 40$



2. Find the square roots of each number. Round to the nearest hundredth when necessary.

a) 800

b) -225

3. Find each. Round to the nearest hundredth when necessary.

a) $\sqrt{79}$

b) $-\sqrt{196}$

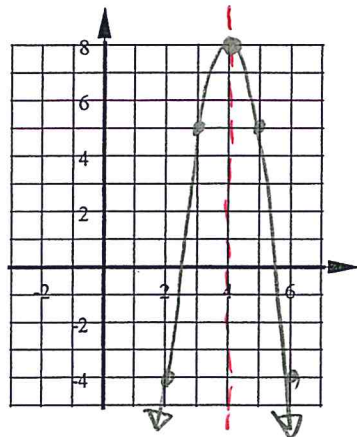
4. The area of a circle is 542 in^2 . The formula for the area of a circle is $A = \pi r^2$. Find the radius of the circle to the nearest hundredth.

5. Simplify each. a) $\sqrt{432}$

b) $\sqrt{208}$

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1. Graph this quadratic function using at least 5 points. $y = -3x^2 + 24x - 40$



$$\text{LOS } x = \frac{-24}{2(-3)} = 4$$

Vertex (4, 8)

ANSWERS

x	y
3	5
2	-4

2. Find the square roots of each number. Round to the nearest hundredth when necessary.

a) 800 ± 28.28

b) -225 There are no real roots

3. Find each. Round to the nearest hundredth when necessary.

a) $\sqrt{79} = 8.89$

b) $-\sqrt{196} = -14$

4. The area of a circle is 542 in^2 . The formula for the area of a circle is $A = \pi r^2$. Find the radius of the circle to the nearest hundredth.

$$\frac{\pi r^2}{\pi} = \frac{542}{\pi}$$

$$\sqrt{r^2} = \sqrt{\frac{542}{\pi}}$$

$$r = 13.13 \text{ in}$$

5. Simplify each. a) $\sqrt{432} = \sqrt{144 \cdot 3}$

$$= 12\sqrt{3}$$

b) $\sqrt{208} = \sqrt{16 \cdot 13}$

$$= 4\sqrt{13}$$