

## Spiral Review #4

Date \_\_\_\_\_ Period \_\_\_\_\_

**Simplify.**

1)  $\sqrt{486}$

2)  $\sqrt{192}$

3)  $2\sqrt{162}$

4)  $6\sqrt{252}$

5)  $\sqrt{30} \cdot \sqrt{18}$

6)  $6\sqrt{3} \cdot 5\sqrt{15}$

7)  $\frac{3\sqrt{8}}{5\sqrt{36}}$

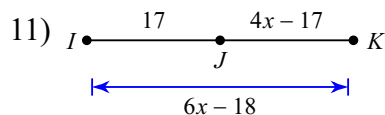
8)  $\frac{5\sqrt{5}}{2\sqrt{20}}$

**Simplify - rationalizing the denominator is required.**

9)  $\frac{2\sqrt{12}}{\sqrt{20}}$

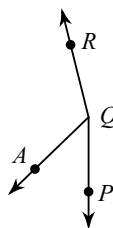
10)  $\frac{\sqrt{2}}{3\sqrt{3}}$

Use the Segment Addition Postulate to set up and solve an equation to find the value of  $x$ .



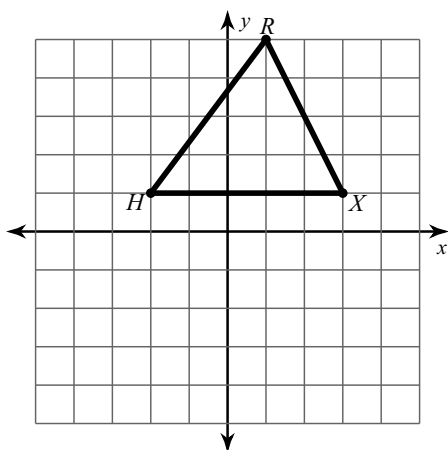
Use the Angle Addition Postulate to set up and solve an equation to find  $x$ .

- 12)  $m\angle PQR = 166^\circ$ ,  $m\angle AQR = 14x - 6$ , and  $m\angle PQA = 6x - 8$ . Find  $x$ .



Graph the image of the figure using the translation given.

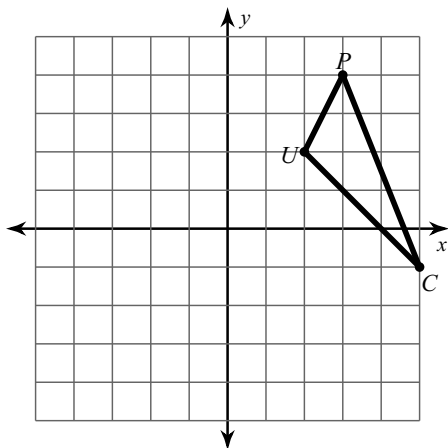
- 13) translation: 2 units right and 5 units down



- 14) Find the area of triangle  $HRX$ . Round your answer to the nearest hundredth, if necessary.

Graph the image of the figure using the translation given.

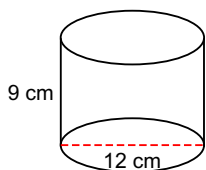
- 15) translation: 3 units left and 4 units down



- 16) Find the perimeter of the image of triangle  $CPU$ . Round your answer to the nearest hundredth, if necessary.

Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

- 17)



- 18)

