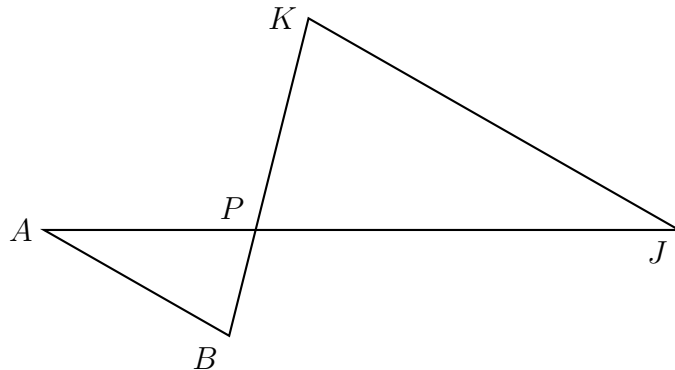
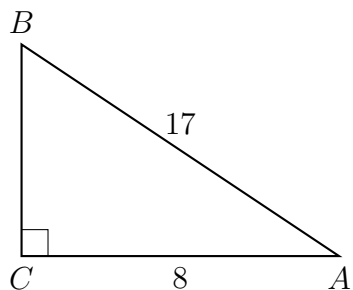


11.17

1. Given $\triangle ABP \sim \triangle JKP$ as shown below. $AB = 9.6$, $AP = 12.0$, $BP = 6.3$, and $JP = 27.0$. Find JK .



2. Write an equation of the line that is parallel to the line whose equation is $3y + 7 = 2x$ and passes through the point $(2, 6)$.
3. The base of a pyramid is a rectangle with a width of 4.6 cm and a length of 9 cm. What is the height, in centimeters, of the pyramid if its volume is 82.8 cm^3 ?
4. What is the equation of a circle with center $(-3, 7)$ and radius $r = 4$?
5. In the diagram below of right triangle ABC , $AC = 8$, and $AB = 17$.



Which equation would determine the value of angle A ?

(a) $\sin A = \frac{8}{17}$

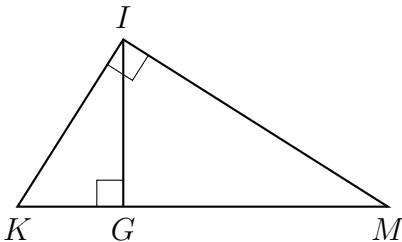
(b) $\tan A = \frac{8}{15}$

(c) $\cos A = \frac{15}{17}$

(d) $\tan A = \frac{15}{8}$

6. In a right triangle, the acute angles have the relationship $\sin(2x + 4) = \cos(46)$.
What is the value of x ?

7. In the diagram below of right triangle KMI , altitude \overline{IG} is drawn to hypotenuse \overline{KM} .



IF $KG = 9$ and $IG = 12$, what is the length of \overline{IM} ?

8. Circle O has chords \overline{AD} and \overline{BE} intersecting at C , as shown. Find AC .

